BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

DOCKET NO. 2019-3-E

In the Matter of)	
Annual Review of Base Rates)	DIRECT TESTIMONY OF
for Fuel Costs for)	KIMBERLY D. MCGEE FOR DUKE
Duke Energy Carolinas, LLC, Increasing)	ENERGY CAROLINAS, LLC
Residential and Non-Residential Rates)	

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- 2 A. My name is Kimberly D. McGee, and my business address is 550 South Tryon
- 3 Street, Charlotte, North Carolina.

4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

- 5 A. I am a Rates Manager supporting both Duke Energy Carolinas, LLC ("DEC" or the
- "Company") and Duke Energy Progress, LLC ("DEP") (collectively, the
- 7 "Companies").

8 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND

- 9 **PROFESSIONAL EXPERIENCE.**
- 10 A. I graduated from the University of North Carolina at Charlotte with a Bachelor of
- Science degree in Accountancy. I am a certified public accountant licensed in the
- State of North Carolina. I began my career in 1989 with Deloitte and Touche, LLP
- as a staff auditor. In 1992, I began working with DEC (formerly known as Duke
- Power Company) as a staff accountant and have held a variety of positions in the
- finance organization. From 1997 until 2009, I worked for Wachovia Bank (now
- known as Wells Fargo) in a variety of finance and regulatory positions. I rejoined
- DEC in January 2009 as a Lead Accountant in Financial Reporting. I joined the
- 18 Rates Department in 2011 as Manager, Rates and Regulatory Filings.

19 Q. HAVE YOU TESTIFIED BEFORE THIS COMMISSION IN ANY PRIOR

- 20 **PROCEEDINGS?**
- 21 A. Yes. I testified before the Public Service Commission of South Carolina ("PSCSC"
- or "Commission") in DEC's 2018 and 2017 annual fuel and environmental cost
- recovery proceeding in Dockets 2018-3-E and 2017-3-E.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

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The purpose of my testimony is to provide DEC's actual fuel, capacity related costs 2 A. 3 including Public Utility Regulatory Policies Act of 1978 ("PURPA") capacity, environmental, and Distributed Energy Resource Program ("DERP") cost data for 4 June 1, 2018 through May 31, 2019 (the "review period"), the projected fuel, 5 capacity related costs, environmental and DERP cost information for June 1, 2019 6 through September 30, 2019 (the "forecast period"), and DEC's proposed fuel 7 factors by customer class for October 1, 2019 through September 30, 2020 (the 8 "billing period"). I am providing thirteen exhibits to support my testimony. 9

10 Q. WHAT IS THE SOURCE OF THE ACTUAL INFORMATION AND DATA 11 FOR THE REVIEW PERIOD?

Actual test period kilowatt hour ("kWh") generation, kWh sales, fuel-related revenues, fuel-related expenses, and DERP revenues and expenses were taken from DEC's books and records. These books, records, and reports of DEC are subject to review by the appropriate regulatory agencies in the three jurisdictions that regulate DEC's electric rates.

In addition, independent auditors perform an annual audit to provide assurance that, in all material respects, internal accounting controls are operating effectively and DEC's financial statements are accurate.

Q. DOES DEC PURCHASE POWER AND HOW ARE THESE COSTS RECORDED?

22 A. Yes. The Company continuously evaluates purchasing power if it can be reliably 23 procured and delivered at a price that is less than the variable cost of DEC's

generation. In accordance with S.C. Code Ann. § 58-27-865(A), DEC recovers from its South Carolina retail customers an amount that is the lower of the purchase price or DEC's avoided variable cost for generating an equivalent amount of power for its economy purchases. The Company also engages in economy purchases (and economy sales) with DEP as a result of the Joint Dispatch Agreement.

The Company also purchases power from certain suppliers that are treated as firm generation capacity purchases. In accordance with S.C. Code Ann. § 58-27-865(A)(2)(a), all amounts paid to these suppliers are recorded as recoverable fuel costs with the exception of capacity charges.

Finally, the Company routinely purchases power from qualifying facilities under PURPA. According to Act 236, set forth in S.C. Code Ann. § 58-27-865(A), the avoided cost payments for such purchases are included in fuel costs recoverable from South Carolina retail customers

Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 1.

A.

McGee Exhibit No. 1 is a summary of DEC's recommended fuel rate components for the billing period. The components are: (1) base fuel costs, (2) capacity-related costs, (3) DERP avoided costs, (4) variable environmental costs, and (5) DERP incremental costs. These fuel rate components are supported by McGee Exhibit Nos. 2 through 13 and individually discussed further in my testimony.

The following table shows the rates and monthly charges proposed by the Company in this proceeding as reflected in McGee Exhibit No. 1. The DERP incremental cost component is computed as a dollar amount per customer account

- since these amounts are subject to per-account cost caps established by Act 236.
- 2 All other fuel components are computed as a rate per kWh.

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				Cus	stomer Class	5				
			Cents / kWh							
				(General /					
ne No.	Description	Reference	Residentia	l	Lighting	In	dustrial			
	Base Fuel Costs									
1	Base Fuel Cost Component Under / (Over) at September 2019	Exhibit 2 Page 2	0.3606	,	0.3606		0.3606			
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	1.7541		1.7541		1.7541			
3	Total Base Fuel Cost Component		2.1146	•	2.1146		2.1146			
	Capacity Related Costs			C	ents / kWh					
4	PURPA Purchased Power Component Under / (Over) at September 2019	Exhibit 6 Page 1, 2, 3	(0.0197	')	(0.0403)		(0.0333			
5	Capacity Related Cost Component Projected Billing Period	Exhibit 7	0.1983		0.1039		0.0705			
6	Total Capacity Related Cost Component	Line 4+5	0.1786	i	0.0636		0.0372			
	Distributed Energy Resource Progam Avoided Costs			C	ents / kWh					
7	DERP Avoided Costs Component Under / (Over) at September 2019	Exhibit 12 Page 1,2,3	0.0001		(0.0001)		(0.0002			
8	DERP Avoided Costs Component Projected Billing Period	Exhibit 13	0.0025		0.0013		0.0009			
9	Total DERP Avoided Costs Component	Line 7 + 8	0.0026	i	0.0012		0.0007			
	Environmental Costs			C	ents / kWh					
10	Environmental Component Under / (Over) at September 2019	Exhibit 4 Page 1, 2, 3	0.0096		(0.0017)		(0.0022			
11	Environmental Component Projected Billing Period	Exhibit 5	0.0507		0.0266		0.0180			
12	Total Environmental Component	Line 10 + 11	0.0603		0.0249		0.0158			
		Sum Line 3 + Line 6 +								
13	Total Fuel Billing Factors	Line 9 + Line 12	2.356	1	2.2043		2.168			
	Distributed Energy Resource Program Incremental Cost per Account									
					General					
			Residentia	<u> </u>	Service	In	dustrial			
	DERP Incremental Under / (Over) at September 2019	= 1.11.1.0	A (4 = 4		(4.76)		(000.00			
14	Annual Charge / (Credit)	Exhibit 9	\$ (1.51		(4.76)		(230.32			
15	Monthly Charge / (Credit)	Exhibit 9	\$ (0.13	\$) \$	(0.40)	\$	(19.19			
	DERP Incremental Projected Billing Period									
16	Annual Charge	Exhibit 11		\$	28.19	•	1,363.5			
17	Monthly Charge	Exhibit 11	\$ 0.74	\$	2.35	\$	113.63			
		line 14 Lline 16	\$ 7.41	. \$	23.44	\$	1,133.2			
18	Total DERP Annual Charge - excluding GRT	Line 14 + Line 16	7.41 ج		23.44	Ÿ	-,			
	Total DERP Annual Charge - excluding GRT Total DERP Monthly Charge - excluding GRT	Line 15 + Line 17		\$	1.95	\$	94.44			

Act 236 requires that capacity costs be tracked separately, allocated and recovered among customer classes using the same method that is used to allocate

Total DERP Annual Charge - including GRT

Total DERP Monthly Charge - including GRT

Totals may not sum due to rounding

1.96 \$

0.62 \$

Line 18 / (1-Tax Rate) \$
Line 19 / (1-Tax Rate) \$

and recover variable environmental costs. Act 236 also requires that the incremental costs and avoided cost of DERP be tracked separately, allocated and recovered among customer classes using the same method that is used to allocate variable environmental costs.

In addition, McGee Exhibit No. 1 includes the projected per-account charge per month of \$0.62, \$1.96 and \$94.91, including Gross Receipts Tax ("GRT"), for South Carolina residential, general service, and industrial customers, respectively. The monthly DERP incremental per-account charge recovers 100% of the DERP incremental costs, in accordance with S.C. Code Ann. § 58-27-865(A)(1).

Q. HOW DID DEC'S FUEL REVENUE BILLINGS COMPARE TO THE FUEL COSTS INCURRED DURING THE JUNE 2018 – MAY 2019 TIME PERIOD?

McGee Exhibit No. 2 is a monthly comparison of fuel revenues collected from South Carolina retail customers to the actual and estimated jurisdictional fuel costs attributable to those sales. The Company currently projects that its deferred base fuel cost balance will be an under-collection of approximately \$78.9 million at September 30, 2019. This includes approximately \$544,982 of interest calculated on the 2018 deferral of \$34 million of costs approved by the Commission in Docket No. 2018-3-E as stipulated to in that proceeding.¹

Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 3.

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A. McGee Exhibit No. 3 presents DEC's proposed base fuel rate of 1.7541¢/kWh for the billing period to recover South Carolina's retail share of \$1.6 billion of

¹ See Stipulation at P 5, Docket No. 2018-3-E (filed Sept. 10, 2018).

projected system fuel expense. The South Carolina retail share of approximately \$384 million incorporates net metering avoided fuel benefits assigned fully to SC retail customers.

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The fuel forecast supporting the projected fuel cost was generated by an hourly dispatch model that considers the latest forecasted fuel prices, outages at the generating plants based on planned maintenance and refueling schedules, forced outages based on historical trends, generating unit performance parameters, and expected market conditions associated with power purchase and off-system sales opportunities. In addition, the forecasting model reflects the joint dispatch of the combined power supply resources of the Companies.

Q. PLEASE PROVIDE A STATUS UPDATE OF ENVIRONMENTAL COST COLLECTION.

A. During the review period, DEC recovered variable environmental costs and the costs of emission allowances through the environmental component of the fuel rate. Environmental costs allocated to the South Carolina retail jurisdiction during the review period were approximately \$5.7 million, as shown by month on McGee Exhibit No. 4. The Company currently estimates that its deferred environmental cost balance will be an under-collection of \$346,747 at September 30, 2019.

Q. HAVE YOU PROVIDED A FORECAST OF ENVIRONMENTAL COSTS?

20 A. Yes, McGee Exhibit No. 5 presents DEC's estimated system environmental costs 21 for the billing period of \$27.1 million. The South Carolina retail portion is 22 projected to be approximately \$6.7 million.

1 Q. PLEASE DESCRIBE EMISSION-REDUCING CHEMICALS THAT DEC 2 INCLUDED IN THE PROPOSED FUEL RATE IN THIS FILING.

3 Α. As Company witness Immel explains more specifically in his testimony, DEC uses emission-reducing chemicals at its fossil/hydro plants to help it provide low cost, 4 reliable electric generation for its customers while also complying with state and 5 federal environmental control obligations. As a result, DEC has included the cost 6 of magnesium hydroxide, calcium carbonate, ammonia, trona, urea, quicklime, 7 limestone, lime and hydrated lime incurred during the review period in its fuel cost 8 recovery application. Mercury and Air Toxics Standards ("MATS") chemicals that 9 10 DEC may use in the future to reduce emissions include, but may not be limited to, activated carbon, mercury oxidation chemicals, and mercury re-emission 11 prevention chemicals. 12

Q. HOW DID DEC ALLOCATE ENVIRONMENTAL COSTS?

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A. DEC allocated the South Carolina retail portion of environmental cost to
Residential, General Service/Lighting, and Industrial customer classes based upon
the firm coincident peak demand of each class for the prior year. The 2017 firm
coincident peak demand was used to allocate costs for the period June 2018 –
December 2018 and the 2018 firm coincident peak demand was used to allocate
costs for the period January 2019 – September 2020. This allocation is shown on
McGee Exhibit Nos. 4 and 5.

Q. PLEASE PROVIDE A STATUS UPDATE OF CAPACITY-RELATED COSTS COLLECTION.

- During the review period, DEC recovered capacity related costs, including PURPA 1 Α. purchased power capacity costs and natural gas transportation (pipeline 2 reservation/lease costs) and storage costs through the capacity-related component 3 of the fuel rate. Capacity related costs allocated to the South Carolina retail 4 jurisdiction during the review period were approximately \$16.4 million, as shown 5 on McGee Exhibit No. 6. The Company currently estimates that its cumulative 6 capacity related cost balance will be an (over)-recovery of \$(6.8) million 7 September 30, 2019. 8
- 9 Q. HAVE YOU PROVIDED A FORECAST OF CAPACITY-RELATED

 10 COSTS?
- 11 A. Yes. McGee Exhibit No. 7 presents DEC's projected system capacity-related costs,
 12 including PURPA purchased power capacity costs, natural gas transportation
 13 (pipeline reservation/ lease costs) and natural gas storage costs, for the billing
 14 period of \$105.6 million. The South Carolina retail portion is forecasted to be
 15 approximately \$26.0 million.

Q. HOW DID DEC ALLOCATE CAPACITY RELATED COSTS?

A. DEC allocated the South Carolina retail portion of capacity-related costs to
Residential, General Service/Lighting, and Industrial customer classes based upon
the firm coincident peak demand of each class for the prior year. The 2017 firm
coincident peak demand was used to allocate costs for the period June 2018 December 2018 and the 2018 firm coincident peak demand was used to allocate
costs for the period January 2019 – September 2020. This allocation is shown on
McGee Exhibit Nos. 6 and 7.

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Q. WHAT DERP INCREMENTAL COSTS ARE INCLUDED IN THIS FUEL 1 FILING? 2 S.C. Code Ann. § 58-39-140 defines "incremental costs" as all reasonable and 3 Α. prudent costs incurred by an electrical utility to implement a distributed energy 4 resource program. This filing includes the following categories of incremental costs: 6 Costs associated with purchase power agreements ("PPA") in excess of the 7 8 Company's avoided cost rate; 9 The DERP net energy metering ("NEM") Incentive, which is a credit available to eligible NEM customer-generators, approved in Docket No. 10 2014-246-E; 11 Amortization of solar rebates given to South Carolinas residential and non-12 residential customers to invest in or lease distributed generation; 13 Carrying costs on unamortized solar rebate balances; 14 15 An incentive utilized to lower the subscription charge customers pay to participate in the Shared Solar program; 16 Avoided capacity costs and administrative costs associated with NEM, 17 18 recoverable as an incremental cost based on Section 58-40-20(F)(6); 19 General and administrative costs, which include the cost of developing and

implementing programs, incremental labor, and additional revenue-grade

Carrying costs on under-collected balances due to per-account cost caps.

meters; and

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1	Q.	PLEASE PROVIDE A	STATUS	UPDATE	OF	DERP	INCREMENTAL
ว		COSTS COLLECTION					

- 3 A. During the review period, DEC recovered DERP incremental costs, offset by any revenues collected from program participants, through the DERP incremental cost 4 per account charge. Review period DERP incremental costs were approximately 5 \$8.8 million, as shown on McGee Exhibit No. 8. The cumulative DERP incremental 6 cost balance will be an (over)-collection balance of \$(474,257) at May 31, 2019. 7 The Company currently estimates that the cumulative DERP incremental cost 8 balance will be an (over)-collection balance of approximately \$(1.5) million at 9 September 30, 2019. 10
- 11 Q. ARE THERE ANY ITEMS APPROVED IN THE DEC SC BASE RATE
 12 CASE, ORDER NO. 2019-323, DOCKET NO. 2018-319-E, THAT COULD
 13 IMPACT DERP COSTS AND ASSOCIATED REVENUES INCLUDED IN
 14 THIS FUEL FILING?
- 15 A. Yes. The Commission approved the Company using the unamortized SC DERP
 16 rebate balance at September 30, 2018 of \$40.1 million to offset excess deferred
 17 income taxes approved in the associated EDIT rider. Removal of this balance
 18 resulted in lowering the per account charge.
- 19 Q. DID THE COMPANY INCLUDE IMPACTS OF THE RECENTLY
 20 ENACTED HOUSE BILL 3659 (ACT 62) INTO THE DERP
 21 PROJECTIONS?
- Yes. Originally, Act 236 set limits on the amount of net metering that the Company could offer to customers. With the enactment of Act 62, there is no longer a cap on

the amount of net metering allowed in South Carolina. As described in Company witness Martin's testimony, the projections reflect the increase in net metering generation as well as an increase in the net metering incentive included in the incremental DERP charges shown in McGee Exhibit No. 10.

o. HOW DID DEC ALLOCATE DERP INCREMENTAL COSTS?

A.

DEC allocated 100% of DERP incremental costs to South Carolina residential, Commercial (General Service/Lighting), and Industrial customer classes based upon the firm coincident peak demand of each class for the prior year. The 2017 firm coincident peak demand was used to allocate costs for the period June 2018 – December 2018 and the 2018 firm coincident peak demand was used to allocate costs for the period January 2019 – May 2019. This allocation is shown on McGee Exhibit No. 9.

One exception to this approach is the allocation of the avoided capacity costs associated with NEM that is included in the DERP incremental costs. This particular incremental cost has been allocated to the South Carolina retail jurisdiction based on its pro rata share of system peak demand, rather than 100%. This DERP incremental cost is related to system generation supply resources. Costs and benefits allocated with the system generation supply resources are traditionally allocated among all of the Company's rate jurisdictions since such generation supply resources are operated as a portfolio to serve its native load customers in all rate jurisdictions.

o. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 9.

McGee Exhibit No. 9 establishes the monthly charges by customer class for 1 Α. incremental DERP (over)/under recovery. Each class's allocated portion of the 2 cumulative Incremental (over)/under recovery balance was divided by the projected 3 number of accounts subject to the DERP per-account charge for each class. This 4 calculation results in an annual dollar per-account charge which is billed as a 5 separate fixed monthly component of the fuel factor by customer class. DEC 6 proposes the per-account monthly decrement for (over)-recovery of \$(0.13), 7 \$(0.40) and \$(19.19) for South Carolina Residential, Commercial (General 8 Service/Lighting) and Industrial customers, excluding GRT. 9

10 Q. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 10.

11 **A.** McGee Exhibit No. 10 itemizes DEC's projected DERP incremental costs by cost 12 type and month for the billing period. Total DERP incremental costs are projected 13 to be approximately \$8.6 million.

Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 11.

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A. McGee Exhibit No. 11 presents the calculation of the prospective per-account charge by customer class in order for DEC to recover DERP projected incremental costs. Each class's allocated portion of the total DERP projected cost balance was divided by the projected number of accounts subject to the DERP per-account charge for each class. This calculation results in an annual dollar per-account charge which is billed monthly as part of the fixed monthly component of the fuel factor by customer class. DEC has estimated per-account charges per month of \$0.74, \$2.35 and \$113.63 for South Carolina Residential, Commercial and Industrial customers, excluding GRT. Proposed rates are subject to per-account cost caps.

- 1 Q. HOW DOES THE COMPANY TREAT UNDER-COLLECTED DERP
- 2 INCREMENTAL COSTS RESULTING FROM REACHING THE PER
- 3 **ACCOUNT COST CAP?**
- 4 A. Consistent with Docket No. 2015-55-E, Order No. 2015-515, the Company
- 5 reallocates under-collected DERP incremental costs in excess of the per-account
- 6 cost caps among all customer classes with carrying costs applied at the three-year
- 7 treasury rate plus 65 basis points. Interest calculated on the monthly under-collected
- balance is shown as a separate incremental cost on McGee Exhibit No. 8.
- 9 Q. HAVE ANY CUSTOMER CLASSES REACHED THE DERP PER-
- 10 **ACCOUNT CAP IN THIS FILING?**
- 11 A. Yes, During the review period, the industrial customers were being billed the
- capped amount of \$100 per month. Interest was computed in any month that billing
- the capped amount resulted in the industrial customer class having an under-
- collection. That interest was included as an incremental cost, shown on Exhibit 8.
- The proposed rates in this case do not exceed the cap due to the removal of solar
- rebate balances resulting in lower amortization costs and associated carrying costs
- on those rebate balances as approved in the SC Base rate case, Order No. 2019-323,
- 18 Docket No. 2018-319-E.
- 19 Q. WHAT DERP AVOIDED COSTS ARE INCLUDED IN THIS FILING?
- 20 A. Avoided cost generally refers to the energy and capacity cost the utility avoids when
- buying power from another entity rather than generating the power itself. Under
- 22 PURPA, payments made to qualifying facilities for power are based on avoided
- cost rates. In the DERP context, S.C. Code Ann. §58-39-140(A)(1) states that

"avoided cost" for purposes of separating total DERP program costs between incremental and avoided costs is "all costs paid under avoided cost rates, or negotiated rates pursuant to PURPA, which ever is lower." In S.C. Code Ann. § 58-39-120(B), avoided costs are further defined, indicating that they are to be rates most recently approved by the Commission, or negotiated pursuant to PURPA. Any amounts above avoided cost or above negotiated rates pursuant to PURPA from DERP third party purchases are treated as DERP incremental costs in this filing.

A.

Q. PLEASE PROVIDE A STATUS UPDATE OF DERP AVOIDED COSTS COLLECTIONS.

During the review period, DEC recovered the DERP avoided costs of third party purchases, including the portion serving the purchased power needs of the Shared Solar program, through the DERP avoided cost component of the fuel rate. As shown on McGee Exhibit No. 12, system DERP avoided costs during the review period were \$126,243, of which \$30,913 has been allocated to the South Carolina retail jurisdiction. The total South Carolina retail share was allocated to the classes as described below and was divided by projected sales to arrive at a cents per kWh rate by customer class. The Company currently estimates that its South Carolina deferred DERP avoided cost balance will be an (over)-collection of \$(18,581) at September 30, 2019.

O. HOW DID THE COMPANY ALLOCATE DERP AVOIDED COSTS?

A. DEC allocated DERP avoided costs based on the same method that is used by the utility to allocate and recover variable environmental costs. As such, DEC allocated the South Carolina Retail portion of DERP avoided costs to Residential,

- General Service/Lighting and Industrial rate classes based upon the firm coincident peak demand of each class for the prior year. The 2017 firm coincident peak demand was used to allocate costs for the period June 2018 December 2018 and the 2018 firm coincident peak demand was used to allocate costs for the period January 2019 September 2020. The total cost allocated to each class is divided by projected sales to arrive at a cents per kWh. This allocation is shown on McGee Exhibit No. 12 and 13.
- Q. HAVE YOU PROVIDED A FORECAST OF DERP AVOIDED COSTS IN
 MCGEE EXHIBIT NO. 13?
- 10 A. Yes, McGee Exhibit No. 13 provides DEC's projected system DERP avoided cost 11 for the billing period of approximately \$1.3 million. The South Carolina retail 12 portion is projected to be \$330,558.
- Q. DO YOU BELIEVE DEC'S ACTUAL FUEL COSTS AND DERP COSTS

 INCURRED DURING THE PERIOD WERE REASONABLE?
- 15 A. Yes. I believe the costs were reasonable and that DEC has demonstrated that it has
 16 met the criteria set forth in S.C. Code Ann. § 58-27-865. These costs also reflect
 17 DEC's continuing efforts to maintain reliable service and an economical generation
 18 mix, thereby minimizing the total cost of providing service to DEC's South
 19 Carolina retail customers. I also believe that the DERP costs were reasonable and
 20 that DEC has demonstrated that it met the criteria set forth in S.C. Code Ann. § 5821 39-130(A)(2).
- 22 Q. WHAT ARE THE KEY DRIVERS IMPACTING THE PROPOSED FUEL

FACTOR?

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- 2 A. A number of factors contribute to the change in the proposed total fuel cost factors
- for all customer classes. The increase in fuel factors is primarily being driven by a
- 4 higher under-collection in base fuel due primarily to the inclusion of \$34 million of
- 5 costs that were deferred from the 2018 annual fuel filing proceeding. This increase
- is partially offset by lower fuel commodity prices projected for the billing period.
- 7 Q. INCLUDING THE DERP INCREMENTAL PER ACCOUNT CHARGES,
- 8 WHAT IS THE IMPACT TO CUSTOMERS' BILLS IF THE PROPOSED
- 9 FUEL COST, CAPACITY RELATED COST, DERP AVOIDED COST, AND
- 10 ENVIRONMENTAL COST FACTORS ARE APPROVED BY THE
- 11 **COMMISSION?**
- 12 A. The impact of all components of this filing to customers' monthly bills of a typical
- residential customer using 1000 kWh per month is an increase of \$2.21, or 1.7%. The
- impacts for average general service, lighting and industrial customers vary by
- customer, but are approximately of 0.7%, 0.6% and 1.7%, respectively.
- 16 Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?
- 17 A. Yes, it does.

McGee Exhibit 1

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF TOTAL FUEL BILLING FACTORS BILLING PERIOD OCTOBER 1, 2019 TO SEPTEMBER 30, 2020

				Customer Class	s
				Cents / kWh	
				General /	
Line No.	Description	Reference	Residential	Lighting	Industrial
1	Base Fuel Costs Page Fuel Cost Component Under / (Over) at September 2010	Evhibit 2 Dago 2	0.3606	0.3606	0.3606
1 2	Base Fuel Cost Component Under / (Over) at September 2019 Base Fuel Cost Component Projected Billing Period	Exhibit 2 Page 2 Exhibit 3	1.7541	1.7541	1.7541
3	Total Base Fuel Cost Component	EXIIIDIL 3	2.1146	2.1146	2.1146
3	Total base i del cost component		2.1140	2.1140	2.1140
	Capacity Related Costs			Cents / kWh	1
4	PURPA Purchased Power Component Under / (Over) at September 2019	Exhibit 6 Page 1, 2, 3	(0.0197)		(0.0333)
5	Capacity Related Cost Component Projected Billing Period	Exhibit 7	0.1983	0.1039	0.0705
6	Total Capacity Related Cost Component	Line 4 + 5	0.1786	0.0636	0.0372
	Distributed Energy Resource Progam Avoided Costs			Cents / kWh	
7	DERP Avoided Costs Component Under / (Over) at September 2019	Exhibit 12 Page 1,2,3	0.0001	(0.0001)	(0.0002)
8	DERP Avoided Costs Component Projected Billing Period	Exhibit 13	0.0025	0.0013	0.0009
9	Total DERP Avoided Costs Component	Line 7 + 8	0.0026	0.0012	0.0007
				0 . / 1.24	
40	Environmental Costs	5 1 11 11 4 5 4 6 6	2 2225	Cents / kWh	(0.0000)
10	Environmental Component Under / (Over) at September 2019	Exhibit 4 Page 1, 2, 3	0.0096	(0.0017)	(0.0022)
11 12	Environmental Component Projected Billing Period Total Environmental Component	Exhibit 5 Line 10 + 11	0.0507	0.0266 0.0249	0.0180 0.0158
12	Total Environmental component	Line 10 + 11	0.0003	0.0249	0.0136
		Sum Line 3 + Line 6 +			
13	Total Fuel Billing Factors	Line 9 + Line 12	2.3561	2.2043	2.1683
	Distributed Energy Resource Program Incremental Cost per Account				
				General	
			Residential	Service	Industrial
	DERP Incremental Under / (Over) at September 2019				
14	Annual Charge / (Credit)	Exhibit 9	\$ (1.51)		
15	Monthly Charge / (Credit)	Exhibit 9	\$ (0.13)	\$ (0.40)	\$ (19.19)
	DERP Incremental Projected Billing Period				
16	Annual Charge	Exhibit 11	\$ 8.92	\$ 28.19	\$ 1,363.57
17	Monthly Charge	Exhibit 11	\$ 0.74	\$ 2.35	\$ 113.63
18	Total DERP Annual Charge - excluding GRT	Line 14 + Line 16	\$ 7.41	\$ 23.44	\$ 1,133.25
19	Total DERP Monthly Charge - excluding GRT	Line 15 + Line 17	\$ 0.62	\$ 1.95	\$ 94.44
20	Total DERP Annual Charge per account CAP		\$ 12.00	\$ 120.00	\$ 1,200.00
21	Total DERP Annual Charge - including GRT	Line 18 / (1-Tax Rate)	\$ 7.45	\$ 23.56	\$ 1,138.93
22	Total DERP Monthly Charge - including GRT	Line 19 / (1-Tax Rate)			•
	<i>,</i> 5 5				-

Totals may not sum due to rounding

McGee Exhibit 2 DOCKET NO 2019-3-E Page 1

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.	Description	Reference		June 2018	July 2018		August 2018	September 2018		tober 018	November 2018
1	Coal		\$	79,886,104	\$ 62,855,33	2 ¢	68,408,695	\$ 67,343,697	¢ 2	7,787,575	\$ 43,384,931
2	Gas		Y	36,914,950	45,575,07		37,243,916	36,438,302		1,301,127	41,370,503
3	Nuclear Fuel			23,770,804	24,561,3		24,555,250	20,886,708		0,475,919	21,358,058
4	Purchased Power			23,849,355	37,871,04		37,835,866	44,342,725		6,650,064	39,500,513
5	Fuel Expense Recovered Through Intersystem Sales			(9,702,995)	(1,517,7)		(3,304,087)	(9,957,096)		3,278,924)	(6,981,187)
6	Total Fuel Costs	Sum Lines 1 - 5	\$	154,718,218				\$ 159,054,336		2,935,761	<u> </u>
7	Eliminate Avoided Fuel Benefit of SC NEM		т	307,812	313,6	-	323,047	330,116	,	332,039	336,077
8	Adjusted System Fuel costs	Line 6 + Line 7	\$	155,026,030	\$ 169,658,5		•	\$ 159,384,452	\$ 13	3,267,800	
9	Total System KWH Sales		7	7,999,801,237	8,477,178,0	71	8,257,882,938	9,497,758,228	6,33	4,828,962	6,670,820,955
10	Eliminate NEM Solar Generation kwhs			9,516,148	9,695,40)9	9,987,053	10,205,632	1	0,227,605	10,343,935
11	Adjusted Projected System kwh Sales	Line 9 + Line 10	8	3,009,317,385	8,486,873,48	30	8,267,869,991	9,507,963,860	6,34	5,056,567	6,681,164,890
12	System cost ¢/kwh	(Line 8 *100) / (Line 11)		1.9356	1.999	91	1.9964	1.6763		2.1003	2.0800
13	Actual/Projected SC Retail Sales kWh (w/solar)		1	.,960,743,382	1,991,741,08	35	2,009,609,778	2,449,765,120	1,47	9,486,530	1,634,436,344
14	Eliminate the NEM impact of Solar Generation kWhs			9,516,148	9,695,40)9	9,987,053	10,205,632	1	0,227,605	10,343,935
15	Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	Line 13 + Line 14	1	,970,259,530	2,001,436,49	94	2,019,596,831	2,459,970,752	1,48	9,714,135	1,644,780,279
16	SC Base Fuel Costs	Line 12 * Line 15 /100	\$	38,135,773	\$ 40,010,12	24 \$	40,319,948	\$ 41,237,125	\$ 3	1,289,070	\$ 34,211,593
17	Assign 100% of avoided fuel benefit of SC NEM	-Line 7		(307,812)	(313,63	L2)	(323,047)	(330,116)		(332,039)	(336,077)
18	Adjusted SC Base Fuel Costs	Line 16 + Line 17	\$	37,827,961	\$ 39,696,53	12 \$	39,996,901	\$ 40,907,009	\$ 3	0,957,031	\$ 33,875,516
19	Fuel Costs Collected - non capacity revenue	Company Record	\$	33,862,039	\$ 34,397,36	8 \$	34,705,960	\$ 42,307,443	\$ 2	6,966,677	\$ 32,093,709
20	Fuel Benefit given in SC NEM Incentive			(149,779)	(152,5	50)	(157,066)	(155,758)		(151,335)	(153,111)
21	Adjusted Fuel Costs Collected	Line 19 + Line 20		33,712,260	34,244,83	.8	34,548,894	\$ 42,151,685	2	6,815,342	31,940,598
22	(Over)/Under Current Month	Line 21-Line 18	\$	4,115,701	\$ 5,451,694.2	29 \$	5,448,007	\$ (1,244,676)	\$	4,141,689	\$ 1,934,918
23	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing		64,562,410	-		-	-		-	-
24	Adjustment		_	(20,332)			<u>-</u>			(1,252)	
25	(Over)/Under Cumulative Balance	PM Cum Bal + Line 22 + Line 24	\$	68,657,779	\$ 74,109,47	73 \$	79,557,480	\$ 78,312,803	\$ 8	2,453,241	\$ 84,388,159

				December	Ja	nuary	February	March	April	May	Twelve Months
Line No.	Description	Reference		2018	2	2019	2019	2019	2019	2019	Ended May 2018
26	Coal		\$	48,664,815	\$ 4	9,654,891 \$	16,745,387	\$ 50,086,667 \$	46,160,016 \$	65,497,339	\$ 636,475,429
27	Gas		·	37,288,136		8,290,338	39,033,198	30,417,245	21,268,188	34,105,881	439,246,856
28	Nuclear Fuel			23,069,842	2	4,333,126	22,036,626	22,301,225	18,932,863	23,519,194	269,800,929
29	Purchased Power			60,817,733	3	8,966,318	90,915,146	24,632,446	29,168,909	16,590,753	491,140,874
30	Fuel Expense Recovered Through Intersystem Sales			(7,350,981)	(1	.2,402,097)	(3,599,063)	(7,592,387)	(6,831,303)	(7,795,568)	(80,313,467)
31	Total Fuel Costs	Sum Lines 26 - 30	\$	162,489,546	\$ 14	8,842,576 \$	165,131,295	\$ 119,845,197 \$	108,698,672 \$	131,917,600	\$ 1,756,350,621
32	Eliminate Avoided Fuel Benefit of SC NEM			338,332		345,919	347,892	350,373	352,074	355,651	4,032,944
33	Adjusted System Fuel costs	Line 31 + Line 32	\$	162,827,878	\$ 14	9,188,495 \$	165,479,187	\$ 120,195,569 \$	109,050,746 \$	132,273,251	\$ 1,760,383,565
34	Total System KWH Sales (w/solar)		-	7,490,426,895	7,56	60,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	89,292,248,136
35	Eliminate NEM Solar Generation kwhs			10,412,429	1	.0,645,948	10,706,640	10,783,000	10,835,324	10,945,408	124,304,531
36	Adjusted Projected System kwh Sales (w/o solar)	Line 34 + Line 35	7	7,500,839,324	7,57	70,888,821	7,430,788,664	6,521,808,145	6,367,436,322	6,726,545,218	89,416,552,667
37	System cost ¢/kwh	Line 33 / Line 36 * 100		2.1708		1.9706	2.2269	1.8430	1.7126	1.9664	
38	Actual/Projected SC Retail Sales kWh (w/solar)		1	1,797,159,761	1,79	3,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	21,727,690,522
39	Eliminate the NEM impact of Solar Generation kWhs			10,412,429	1	.0,645,948	10,706,640	10,783,000	10,835,324	10,945,408	124,304,531
40	Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	Line 38 + Line 39	1	1,807,572,190	1,80	4,193,304	1,816,482,977	1,574,347,949	1,584,730,992	1,678,909,620	21,851,995,053
41	SC Base Fuel Costs	Line 37 * Line 40 /100	\$	39,238,695	\$ 3	5,552,613 \$	40,451,982	\$ 29,014,906 \$	27,140,609 \$	33,014,694	429,617,132
42	Assign 100% of avoided fuel benefit of SC NEM	-Line 32		(338,332)		(345,919)	(347,892)	(350,373)	(352,074)	(355,651)	(4,032,944)
43	Adjusted SC Base Fuel Costs	Line 41 + Line 42	\$	38,900,363	\$ 3	5,206,694 \$	40,104,090	\$ 28,664,533 \$	26,788,535 \$	32,659,043	425,584,188
44	Fuel Costs Collected - non capacity revenue	Company Records	\$	35,310,595	\$ 3	5,239,619 \$	35,479,893	\$ 30,720,924 \$	30,923,902 \$	32,772,161	404,780,290
45	Fuel Benefit given in SC NEM Incentive			(144,085)		(147,256)	(148,085)	(149,143)	(149,859)	(151,381)	(1,809,408)
46	Adjusted Fuel Costs Collected	Line 44 + Line 45	\$	35,166,510	\$ 3	5,092,363 \$	35,331,808	\$ 30,571,781 \$	30,774,043 \$	32,620,780	402,970,882
47	(Over)/Under Current Month	Line 43 - Line 46	\$	3,733,853	\$	114,331 \$	4,772,281	\$ (1,907,248) \$	(3,985,508) \$	38,263	\$ 22,613,306
48	Adjustments			-		29,135				(58,780)	(51,231)
50	(Over)/Under Cumulative Balance	PM Line 50 + Line 47 + Line 48	\$	88,122,011	\$ 8	88,265,478 \$	93,037,759	\$ 91,130,510 \$	87,145,002 \$	87,124,485	

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DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.	Description	Reference	Estimated June 2019	Estimated July 2019	Estimated August 2019	Estimated September 2019
51	Coal		\$ 60,828,963	\$ 81,082,928	\$ 77,420,069	\$ 57,931,968
52	Gas		29,132,975	31,137,597	30,373,226	26,374,941
53	Nuclear Fuel		23,151,020	24,209,098	23,863,373	20,281,583
54	Purchased Power		27,968,319	30,194,308	28,282,417	28,400,426
55	Fuel Expense Recovered Through Intersystem Sales		(62,887)	(823,660)	(505,006)	(227,703)
56	Total Fuel Costs	Sum of Lines 51-55	\$ 141,018,390	\$ 165,800,272	\$ 159,434,080	
57	Eliminate Avoided Fuel Benefit of SC NEM		427,930	414,192	373,514	344,605
58	Adjusted System Fuel costs	Line 56 + Line 57	\$ 141,446,319	\$ 166,214,464	\$ 159,807,594	\$ 133,105,821
59	Total Projected System KWH Sales (w/solar)		7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172
60	Eliminate NEM Solar Generation kwhs		13,167,066	12,744,382	11,492,743	10,603,218
61	Adjusted Projected System kwh Sales(w/o solar)	Line 59 and 60	7,110,958,740	8,141,412,647	8,691,820,374	8,139,631,391
62	System cost ¢/kwh	Line 58 / Line 61 * 100	1.9891	2.0416	1.8386	1.6353
63	Projected SC Retail Sales kWh (w/solar)		1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150
64	Assign 100% of avoided fuel benefit of SC NEM		13,167,066	12,744,382	11,492,743	10,603,218
65	Projected SC Retail Sales kWh (w/o solar)	Line 63 + Line 64	1,755,267,623	1,981,556,913	2,137,309,790	2,039,840,369
66	SC Base Fuel Costs	Line 65 * Line 62 / 100	\$ 34,914,581	\$ 40,455,316	\$ 39,296,525	\$ 33,357,116
67	Assign 100% of avoided fuel benefit of SC NEM		(427,930)	(414,192)	(373,514)	(344,605)
68	Adjusted SC Base Fuel Costs	Line 66 + Line 67	\$ 34,486,651	\$ 40,041,123	\$ 38,923,011	\$ 33,012,511
69	Estimated Base Fuel Cost Collected	Line 63 * 1.727 / 100	\$ 34,228,792	\$ 38,683,229	\$ 41,768,053	\$ 39,870,452
70	Fuel Benefit given in SC NEM Incentive		182,731	176,882	159,503	147,147
71	Adjusted Fuel Costs Collected	Line 69 + Line 70	\$ 34,411,523	\$ 38,860,111	\$ 41,927,556	\$ 40,017,599
72	(Over)/Under Current Month	Line 68 - Line 71	\$ 75,129	\$ 1,181,013	\$ (3,004,545)	\$ (7,005,088)
73	Adjustment		-	-	-	-
74	(Over)/Under Cumulative Balance	PM Cum bal + current mo. Lines 72 and 73	\$ 87,199,614	\$ 88,380,626	\$ 85,376,081	\$ 78,370,993
75	Estimated Interest on Deferred 2018 under-collection balance					\$ 544,982
76	Total (Over)/Under Cumulative Balance	Line 74 + Line 75			•	\$ 78,915,975
77	Projected SC Retail Sales kwhs (October 2019-September 2020)					21,886,062,443
78	SC Base Fuel Rate (cents / kWh)	Line 76 / Line 77 * 100				0.3606

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DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF PROJECTED BILLING PERIOD BASE FUEL COSTS BILLING FACTORS FOR THE 12 MONTHS OCTOBER 2019 TO SEPTEMBER 2020

			October	November	December	January	February	March
Line No.	Description	Reference	2019	2019	2019	2020	2020	2020
1	Coal		\$ 41,252,633	\$ 51,960,977	\$ 52,956,356	\$ 81,427,242	\$ 77,351,494	\$ 49,643,458
2	Gas		16,590,137	20,796,028	26,041,858	24,841,783	22,475,321	26,179,843
3	Nuclear Fuel		21,783,691	21,218,655	23,243,184	24,835,692	23,094,320	21,575,371
4	Purchased Power		22,922,319	28,521,640	29,524,243	14,982,864	15,971,356	29,387,794
5	Fuel Expense Recovered Through Intersystem Sales		(190,900)		•	(6,289,088)	• •	
6	Total Fuel Costs	Sum Lines 1 - 5	\$ 102,357,881	\$ 122,170,368	\$ 131,512,511	\$ 139,798,494	\$ 134,085,174	\$ 126,253,673
7	Eliminate Avoided Fuel Benefit of SC NEM		351,913	254,878	203,878	289,264	325,939	386,031
8	Adjusted System Fuel costs	Line 6 + Line 7	\$ 102,709,794	\$ 122,425,246	\$ 131,716,389	\$ 140,087,758	\$ 134,411,113	\$ 126,639,704
9	Total Projected System Sales kwhs (w/solar)		6,803,214,198	6,495,662,262	7,186,884,482	7,903,467,722	7,808,874,524	7,353,013,933
10	Eliminate NEM Solar Generation kwhs		10,819,149	7,835,922	6,267,988	8,893,091	10,020,613	11,868,059
11	Adjusted Projected System kwh Sales(w/o solar)	Line 9 + Line 10	6,814,033,348	6,503,498,184	7,193,152,470	7,912,360,812	7,818,895,138	7,364,881,993
12	System Cost per kwh (¢/kwh)	Line 8 / Line 11 * 100	1.5073	1.8825	1.8311	1.7705	1.7191	1.7195
13	Adjusted Projected SC Retail Sales kwhs(w/o solar)	·	1,717,069,835	1,628,905,252	1,758,565,782	1,911,997,118	1,915,487,947	1,835,240,173
14	SC Base Fuel Costs	Line 13 * Line 12 / 100	\$ 25,881,865	\$ 30,663,363	\$ 32,201,727	\$ 33,851,766		\$ 31,557,094
15	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)		(124,573)	(90,225)	(72,183)	(102,408)	(115,385)	(136,649)
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 25,757,292	\$ 30,573,138	\$ 32,129,544	\$ 33,749,358	\$ 32,812,908	\$ 31,420,445

Line No.	Description	Reference	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	12 Month Total
Line No.	Description	Reference	2020	2020	2020	2020	2020	2020	Total
17	Coal		\$ 40,782,963	\$ 40,993,152	\$ 53,395,223	\$ 68,023,505	\$ 62,801,602	\$ 44,172,566	\$ 664,761,172
18	Gas		20,470,419	31,860,652	31,518,064	36,442,096	35,409,002	31,914,085	324,539,286
19	Nuclear Fuel		19,515,653	18,884,771	23,234,465	23,981,600	23,947,922	21,341,714	266,657,039
20	Purchased Power		28,048,895	31,719,853	29,785,107	32,039,201	29,094,400	19,040,666	311,038,337
21	Fuel Expense Recovered Through Intersystem Sales		(44,433)	(192,423)	(173,430)	(870,135)	(321,552)	(110,712)	(14,112,844)
22	Total Fuel Costs	Sum Lines 17 through 22	\$ 108,773,497	\$ 123,266,005	\$ 137,759,428	\$ 159,616,268	\$ 150,931,374	\$ 116,358,318	\$ 1,552,882,990
23	Eliminate Avoided Fuel Benefit of SC NEM		488,505	484,444	498,131	470,521	417,015	378,290	4,548,809
24	Adjusted System Fuel costs	Line 22 + Line 23	\$ 109,262,002	\$ 123,750,449	\$ 138,257,559	\$ 160,086,789	\$ 151,348,389	\$ 116,736,608	\$ 1,557,431,799
25	Total Projected System Sales kwhs (w/solar)		6,672,124,994	6,463,555,894	7,048,447,873	8,241,762,239	8,635,074,609	8,178,560,496	88,790,643,227
26	Eliminate NEM Solar Generation kwhs		15,018,500	14,893,615	15,314,430	14,465,610	12,820,614	11,630,069	139,847,661
27	Adjusted Projected System kwh Sales(w/o solar)	Line 25 + Line 26	6,687,143,494	6,478,449,509	7,063,762,303	8,256,227,849	8,647,895,223	8,190,190,565	88,930,490,888
28	System Cost per kwh (¢/kwh)	Line 24 / Line 27 *100	1.6339	1.9102	1.9573	1.9390	1.7501	1.4253	1.7513
29	Adjusted Projected SC Retail Sales kwhs(w/o solar)		1,702,914,090	1,636,574,992	1,741,960,846	2,005,092,800	2,123,398,426	2,048,702,843	22,025,910,104
30	SC Base Fuel Costs	Line 28 * Line 29 / 100	\$ 27,824,108	\$ 31,261,630		\$ 38,878,393			
31	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)	·	(172,916)			(166,558)	(147,615)	(133,910)	
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 27,651,192	\$ 31,090,157	\$ 33,918,704	\$ 38,711,834	\$ 37,014,367	\$ 29,066,708	
	Duple stand SC Petril Sales With (Ostabou 2010, Soutember 2020)								
22	Projected SC Retail Sales kWh (October 2019 - September 2020) Residential								6 720 220 672
33									6,728,320,673
34	General Service/Lighting								5,986,473,078
35	Industrial	6 11 22 16 1 25							9,171,268,692
36	Total SC	Sum Lines 33 through 35							21,886,062,443
37	SC Base Fuel Rate (cents / kWh)	Line 32 / Line 36 * 100							1.7541

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DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Residential

2017 Firm Coincident Peak CP % 38.68%

2018 Firm Coincident Peak CP %

51.25%

Residential

Line No.	Description	Reference		June 2018	July 2018		August 2018	September 2018		October 2018	November 2018
2	Total Reagents		\$	3,686,572	\$ 3,020,625	\$	2,491,911	\$ 2,357,510	\$	1,417,811 \$	1,653,035
3	Emission Allowances			365	484		367	432		413	195
4	Off-System Sales			(26,296)	(1,952)		(2,624)	(9,866)		(3,627)	(39,062)
5	Net Environmental Costs	Sum Lines 3 - 5	\$	3,660,641	\$ 3,019,157	\$	2,489,653	\$ 2,348,076	\$	1,414,597 \$	1,614,168
6	Total System KWH Sales	Exhibit 2	7	7,999,801,237	8,477,178,071	8	,257,882,938	9,497,758,228		6,334,828,962	6,670,820,955
7	Environmental System Costs Incurred (¢ per Kwh)	Line 5 / Line 6 * 100		0.0458	0.0356		0.0301	0.0247		0.0223	0.0242
8	SC Retail Sales kWh	Exhibit 2	1	,960,743,382	1,991,741,085	2	,009,609,778	2,449,765,120		1,479,486,530	1,634,436,344
9	SC Environmental Costs	Line 7 * Line 8 / 100	\$	897,219	\$ 709,361	\$	605,873	\$ 605,642	\$	330,377 \$	395,492
10	Residential Environmental Cost Allocated by Firm CP	Line 9 * Line 1	\$	348,492	\$ 275,525	\$	235,329	\$ 234,274	\$	127,796 \$	152,984
11	SC Residential kWh Sales			609,213,656	685,061,515		638,545,237	696,736,494		491,727,445	435,458,622
12	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 10 / Line 11 * 100		0.0572	0.0402		0.0369	0.0336		0.0260	0.0351
13	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records		0.0331	0.0331		0.0331	0.0331		0.0265	0.0167
14	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 13 + Line 12)*Line 11 /100	\$	146,842	\$ 48,770	\$	23,971	\$ 3,654	\$	(2,312) \$	80,334
15	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$	(1,147,694)							
16	Accounting Adjustment(s)							\$ (3,528)	,		
17	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$	(1,000,852)	\$ (952,082)	\$	(928,112)	\$ (927,985)	\$	(930,297) \$	(849,963)

Line No.	Description	Reference		December 2018		January 2019		February 2019	March 2019		April 2019	May 2019	Twelve Me Ended May	
10	Total December			4 5 40 4 22	<u> </u>	4 702 047	۸.	702 740 . 6	4 562 454	<u>,</u>	1 167 016	1 000 166	ć 22.7	04.226
18	Total Reagents		\$	_,,	\$	1,792,047	\$	782,718 \$	1,562,451	\$	1,467,946 \$	1,999,466	\$ 23,7	81,226
19	Emission Allowances			305		258		230	-		191	(21)		3,218
20	Off-System Sales			(9,758)		(57,154)		4,755	(60,062)		(43,640)	(105,980)	(3.	55,266)
21	Net Environmental Costs	Sum Lines 18 - 20	\$	1,539,681	\$	1,735,151	\$	787,703 \$	1,502,389	\$	1,424,497 \$	1,893,465	\$ 23,4	29,178
22	Total System KWH Sales	Exhibit 2	7	7,490,426,895	7	,560,242,873	7	7,420,082,024	6,511,025,145	ϵ	5,356,600,998	6,715,599,810	89,292,2	48,136
23	Environmental System Costs Incurred (¢ per Kwh)	Line 21 / Line 22* 100		0.0206		0.0230		0.0106	0.0231		0.0224	0.0282		
24	SC Retail Sales kWh	Exhibit 2	1	1,797,159,761	1	,793,547,356	1	1,805,776,337	1,563,564,949	1	L,573,895,668	1,667,964,212	21,727,6	90,522
25	SC Environmental Costs	Line 23 * Line 24/ 100	\$	369,412	\$	411,636	\$	191,698 \$	360,785	\$	352,706 \$	470,283	\$ 5,7	00,485
26	Residential Environmental Cost Allocated by Firm CP	Line 25 * Line 1	\$	142,896	\$	210,964	\$	98,245 \$	184,903	\$	180,762 \$	241,021	\$ 2,4	33,190
27	SC Residential kWh Sales			628,501,539		657,177,943		610,321,704	480,884,048		414,875,999	447,612,785	6,796,1	16,987
28	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 26 / Line 27 * 100		0.0227		0.0321		0.0161	0.0385		0.0436	0.0538		
29	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records		0.0166		0.0166		0.0166	0.0166		0.0166	0.0166		
30	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 29 + Line 28)*Line 27 /100	\$	38,565	\$	101,872	\$	(3,068) \$	105,076	\$	111,893 \$	166,717	\$ 8:	22,315
31	Accounting Adjustment(s)													(3,528)
32	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 30 + Line 31 + PM Cum Bal	\$	(811,397)	\$	(709,525)	\$	(712,593) \$	(607,517)	\$	(495,624) \$	(328,907)		28,907)

McGee Exhibit 4 Page 1b of 3 **DOCKET NO 2019-3-E**

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL **ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019**

Line No.

48

Residential

SC Residential Environmental Increment / (Decrement) (¢ per Kwh)

2018 Firm Coincident Peak CP %

Residential

0.0096

38.68% 1 2017 Firm Coincident Peak CP % 51.25% **Estimated Estimated Estimated** Estimated June July August September Reference 2019 2019 2019 2019 Line No. Description 33 **Total Reagents** \$ 2,279,328 \$ 3,177,248 \$ 3,131,075 \$ 2,379,370 34 **Emission Allowances** 337 517 513 348 35 Off-System Sales (935)(12,520)(7,668)(3,445)2,278,729 \$ 2,376,273 36 **Net Environmental Costs** Sum Lines 33-35 3,165,244 \$ 3,123,920 \$ 37 Total Projected System Sales kwhs (w/solar) Exhibit 2 7,097,791,674 8,128,668,264 8,680,327,632 8,129,028,172 38 Environmental System Costs Incurred (¢ per Kwh) Line 36 / Line 37* 100 0.0321 0.0389 0.0360 0.0292 Projected SC Retail Sales kWh 39 Exhibit 2 1,742,100,557 1,968,812,531 2,125,817,048 2,029,237,150 40 **SC Environmental Costs** 559,297 \$ 766,641 \$ 765,050 \$ Line 38 * Line 39/ 100 593,186 392,905 \$ 41 Residential Environmental Cost Allocated by Firm CP Line 40 * Line 1 286,640 \$ 392,089 \$ 304,008 687,169,454 486,895,816 619,213,465 628,981,205 42 SC Projected Residential kWh Sales 43 SC Residential Environmental Cost Incurred (¢ per Kwh) Line 41 / Line 42 * 100 0.0589 0.0635 0.0571 0.0483 SC Residential Environmental Cost Billed (¢ per Kwh) 44 Company records 0.0166 0.0166 0.0166 0.0166 SC Residential Environmental Costs (Over) / Under Recovery (-Line 44 + Line 43) * Line 42 /100 \$ 278,019 \$ 199,597 45 205,816 \$ 290,115 \$ 46 Cumulative SC Residential Environmental Costs (Over) / Under Recovery Line 45 + PM Cum Bal (123,092) \$ 167,023 \$ 445,042 \$ 644,640 SC Projected Residential Sales (October 2019-September 2020) 47 Exhibit 3 6,728,320,673

Line 46 / Line 47 * 100

McGee Exhibit 4 Page 2a of 3 **DOCKET NO 2019-3-E**

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE/LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

1

General Service / Lighting

General Service / Lighting

2017 Firm Coincident Peak CP %

28.28%

2018

3.90%
3.90%

Lina Na	Description	Deference		June	July		August	September	October	November
Line No.	Description	Reference		2018	2018		2018	2018	2018	2018
2	Total Reagents		\$	3,686,572	\$ 3,020,	625	2,491,911 \$	2,357,510 \$	1,417,811	\$ 1,653,035
3	Emission Allowances			365		484	367	432	413	195
4	Off-System Sales			(26,296)	(1,	952)	(2,624)	(9,866)	(3,627)	(39,062)
5	Net Environmental Costs	Sum Lines 3 - 5	\$	3,660,641	\$ 3,019,	157	2,489,653 \$	2,348,076 \$	1,414,597	\$ 1,614,168
6	Total System KWH Sales	Exhibit 2	7,	999,801,237	8,477,178,	071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955
7	Environmental System Costs Incurred (¢ per Kwh)	Line 5 / Line 6 * 100		0.0458	0.0	356	0.0301	0.0247	0.0223	0.0242
8	SC Retail Sales kWh	Exhibit 2	1,	960,743,382	1,991,741,	085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344
9	SC Environmental Costs	Line 7 * Line 8 / 100	\$	897,219	\$ 709,	361	605,873 \$	605,641 \$	330,376	\$ 395,492
10	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 9 * Line 1	\$	253,208	\$ 200,	192	170,986 \$	171,296 \$	93,442	\$ 111,859
11	SC General Service / Lighting kWh Sales			532,609,815	555,007,	748	534,768,585	608,217,191	471,984,556	426,666,805
12	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 10 / Line 11 * 100		0.0475	0.0	361	0.0320	0.0282	0.0198	0.0262
13	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company records		0.0415	0.0	415	0.0415	0.0415	0.0326	0.0194
14	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 13 + Line 12)*Line 11 /100	\$	32,175	\$ (30,	136) :	(50,943) \$	(81,114) \$	(60,262)	\$ 29,032
15	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$	(178,848)						
16	Accounting Adjustment(s)							1,373		
17	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$	(146,673)	\$ (176,	809)	(227,752) \$	(307,493) \$	(367,755)	\$ (338,723)

				December	January	February	March	April	May	Twelve Months
Line No.	Description	Reference		2018	2019	2019	2019	2019	2019	Ended May 2018
18	Total Reagents		\$	1,549,133	5 1,792,047 \$	5 782,718 \$	1,562,451 \$	1,467,946	1,999,466	\$ 23,781,226
19	Emission Allowances			305	258	230	- \$	191	(21)	3,218
20	Off-System Sales			(9,758)	(57,154)	4,755	(60,062) \$	(43,640)	(105,980)	(355,266)
21	Net Environmental Costs	Sum Lines 18 - 20	\$	1,539,681 \$	1,735,151	787,703 \$	1,502,389 \$	1,424,497	1,893,465	\$ 23,429,178
22	Total System KWH Sales	Exhibit 2	7,	,490,426,895	7,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	89,292,248,136
23	Environmental System Costs Incurred (¢ per Kwh)	Line 21 / Line 22* 100		0.0206	0.0230	0.0106	0.0231	0.0224	0.0282	
24	SC Retail Sales kWh	Exhibit 2	1,	,797,159,761	1,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	21,727,690,522
25	SC Environmental Costs	Line 23 * Line 24/ 100	\$	369,412	411,637	191,698 \$	360,785 \$	352,706	470,283	\$ 5,700,484
26	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 25 * Line 1	\$	104,482 \$	98,386	45,818 \$	86,232 \$	84,301	112,403	\$ 1,532,605
27	SC General Service / Lighting kWh Sales			445,252,198	455,887,041	446,297,147	406,630,406	413,949,578	461,349,327	5,758,620,397
28	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 26 / Line 27 * 100		0.0235	0.0216	0.0103	0.0212	0.0204	0.0244	
29	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company Records		0.0193	0.0193	0.0193	0.0193	0.0193	0.0193	
30 31	SC General Service / Lighting Environmental Costs (Over) / Under Recovery Accounting Adjustment(s)	(-Line 29 + Line 28)*Line 27 /100	\$	18,548 \$	10,400 \$	\$ (40,317) \$	7,752 \$	4,409	23,363	\$ (137,094) \$ 1,373
32	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 30 + Line 31 + PM Cum Bal	\$	(320,175) \$	(309,775) \$	(350,093) \$	(342,340) \$	(337,932) \$	(314,569)	\$ (314,569)

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DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE/ LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

General Service / Lighting

General Service /Lighting

1 2017 Firm Coincident Peak CP %

28.28%

2018 Firm Coincident Peak CP % 23

23.90%

			Estimate June 2019			Estimated July		Estimated August	Estimated September
Line No.	Description	Reference		2019		2019		2019	2019
33	Total Reagents		\$	2,279,328	\$	3,177,248	\$	3,131,075	\$ 2,379,370
34	Emission Allowances			337		517		513	348
35	Off-System Sales			(935)		(12,520)		(7,668)	(3,445)
36	Net Environmental Costs	Sum Lines 33 - 35	\$	2,278,729	\$	3,165,244	\$	3,123,920	\$ 2,376,273
37	Total Projected System Sales kwhs (w/solar)		7	,097,791,674	8	,128,668,264		8,680,327,632	8,129,028,172
38	Environmental System Costs Incurred (¢ per Kwh)	Line 36 / Line 37* 100		0.0321		0.0389		0.0360	0.0292
39	Projected SC Retail Sales kWh		1	,742,100,557	1	,968,812,531	:	2,125,817,048	2,029,237,150
40	SC Environmental Costs	Line 38 * Line 39/ 100	\$	559,297	\$	766,641	\$	765,050	\$ 593,186
41	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 40 * Line 1	\$	133,679	\$	183,236	\$	182,856	\$ 141,778
42	SC Projected General Service / Lighting kWh Sales			503,131,126		558,701,811		586,229,211	562,074,280
43	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 41 / Line 42 * 100		0.0266		0.0328		0.0312	0.0252
44	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company Records		0.0193		0.0193		0.0193	0.0193
45	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 44 + Line 43) * Line 42 /100	\$	36,574	\$	75,407	\$	69,714	\$ 33,298
46	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 45 + PM Cum Bal	\$	(277,994)	\$	(202,588)	\$	(132,874)	\$ (99,576)
47 48	SC Projected General Service / Lighting Sales (October 2019 - September 2020) SC General Service / Lighting Environmental Increment / (Decrement) (¢ per Kwh)	Exhibit 3 Line 46 / Line 47 * 100							5,986,473,078 (0.0017)

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DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Industrial
2017 Firm Coincident Peak CP % 33.03%

2018 Firm Coincident Peak CP %

Industrial 24.85%

Line No.	Description	Reference		June 2018		July 2018		ugust 2018	•	tember 2018		October 2018	N	lovember 2018
2	Total Reagents		Ś	3,686,572	Ś	3,020,625	Ś	2,491,911	\$	2,357,510	Ś	1,417,811	Ś	1,653,035
3	Emission Allowances		*	365	7	484	*	367	•	432	*	413	*	195
4	Off-System Sales			(26,296)		(1,952)		(2,624)		(9,866)		(3,627)		(39,062)
5	Net Environmental Costs	Sum Lines 3 - 5	\$	3,660,641		3,019,157	\$	2,489,653	\$	2,348,076	\$	1,414,597	\$	1,614,168
6	Total System KWH Sales	Exhibit 2		7,999,801,237	;	8,477,178,071	8,2	57,882,938	9,4	197,758,228	6,3	34,828,962	6,	670,820,955
7	Environmental System Costs Incurred (¢ per Kwh)	Line 5 / Line 6 * 100		0.0458		0.0356		0.0301		0.0247		0.0223		0.0242
8	SC Retail Sales kWh	Exhibit 2	:	1,960,743,382	,	1,991,741,085	2,00	9,609,778	2,4	149,765,120	1,4	79,486,530	1,	634,436,344
9	SC Environmental Costs	Line 7 * Line 8 / 100	\$	897,219	\$	709,361	\$	605,873	\$	605,641	\$	330,376	\$	395,492
10	Industrial Environmental Cost Allocated by Firm CP	Line 9 * Line 1	\$	295,519	\$	233,644	\$	199,558	\$	200,072	\$	109,139	\$	130,649
11	SC Industrial kWh Sales			818,919,911		751,671,822	83	86,295,956	1,1	44,811,435	5	15,774,529		772,310,917
12	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 10 / Line 11 * 100		0.0361		0.0311		0.0239		0.0175		0.0212		0.0169
13	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company records		0.0267		0.0267		0.0267		0.0267		0.0227		0.0169
14	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 13 + Line 12)*Line 11 /100	\$	76,867	\$	32,948	\$	(23,733)	\$	(105,593)	\$	(8,022)	\$	513
15	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$	(135,329))									
16	Accounting Adjustment(s)	_						9	\$	2,155				
17	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$	(58,462)	\$	(25,514)	\$	(49,247)	\$	(152,685)	\$	(160,707)	\$	(160,194)

				December		January	February	March	April	May	T,	welve Months
Line No.	Description	Reference		2018		2019	2019	2019	2019	2019	Er	nded May 2018
18	Total Reagents		\$	1,549,133	\$	1,792,047 \$	782,718 \$	1,562,451 \$	1,467,946 \$	1,999,46	i6 \$	23,781,226
19	Emission Allowances			305		258	230	-	191	(2	21)	3,218
20	Off-System Sales			(9,758)		(57,154)	4,755	(60,062)	(43,640)	(105,98	30)	(355,266)
21	Net Environmental Costs	Sum Lines 18 - 20	\$	1,539,681	\$	1,735,151 \$	787,703 \$	1,502,389 \$	1,424,497 \$	1,893,46	5 \$	23,429,178
22	Total System KWH Sales	Exhibit 2	7	7,490,426,895	7,	,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,81	10	89,292,248,136
23	Environmental System Costs Incurred (¢ per Kwh)	Line 21 / Line 22* 100		0.0206		0.0230	0.0106	0.0231	0.0224	0.028	32	
24	SC Retail Sales kWh	Exhibit 2	1	1,797,159,761	1,	,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,21	.2	21,727,690,522
25	SC Environmental Costs	Line 23 * Line 24/ 100	\$	369,412	\$	411,637 \$	191,698 \$	360,785 \$	352,706 \$	470,28	3 \$	5,700,484
26	Industrial Environmental Cost Allocated by Firm CP	Line 25 * Line 1	\$	122,034	\$	102,286 \$	47,634 \$	89,650 \$	87,643 \$	116,85	,9 \$	1,734,688
27	SC Industrial kWh Sales			723,406,024		680,482,372	749,157,486	676,050,495	745,070,091	759,002,10)0	9,172,953,138
28	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 26 / Line 27 * 100		0.0169		0.0150	0.0064	0.0133	0.0118	0.015	4ر	
29	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company Records		0.0168		0.0168	0.0168	0.0168	0.0168	0.016	i8	
30 31	SC Industrial Environmental Costs (Over) / Under Recovery Accounting Adjustment(s)	(-Line 29 + Line 28)*Line 27 /100	\$	502	\$	(12,035) \$	(78,224) \$	(23,926) \$	(37,529) \$	(10,65	53) \$ \$	(188,885) 2,155
32	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Line 30 + Line 31 + PM Cum Bal	\$	(159,693)	\$	(171,727) \$	(249,951) \$	(273,877) \$	(311,406) \$	(322,05	9) \$	(322,059)

McGee Exhibit 4 Page 3b of 3 **DOCKET NO 2019-3-E**

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL **ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019**

Line No.

Industrial

Industrial

1	2017 Firm Coincident Peak CP %	33.03%				2018 Firm Coi	inci	dent Peak CP %		24.85%
Line No.	Description	Reference	1	Estimated June 2019		Estimated July 2019		Estimated August 2019		Estimated September 2019
24	Total Reagents		\$	2,279,328	ċ	3,177,248	ć	3,131,075	¢	2,379,370
34 35	Emission Allowances		Ş	337	Ą	5,177,248	Ş	513	Ş	2,379,370 348
36	Off-System Sales			(935)		(12,520)		(7,668)		(3,445)
37	Net Environmental Costs	Sum Lines 33 - 35	\$	2,278,729		3,165,244			\$	2,376,273
38	Total Projected System Sales kwhs w/solar	Exhibit 2	7	,097,791,674		8,128,668,264		8,680,327,632		8,129,028,172
39	Environmental System Costs Incurred (¢ per Kwh)	Line 36 / Line 37* 100		0.0321		0.0389		0.0360		0.0292
40	Projected SC Retail Sales kWh	Exhibit 2	1	,742,100,557		1,968,812,531		2,125,817,048		2,029,237,150
41	SC Environmental Costs	Line 38 * Line 39/ 100	\$	559,297	\$	766,641	\$	765,050	\$	593,186
42	Industrial Environmental Cost Allocated by Firm CP	Line 40 * Line 1	\$	138,978	\$	190,500	\$	190,105	\$	147,399
43	SC Projected Industrial kWh Sales			752,073,616		790,897,255		852,418,383		838,181,666
44	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 41 / Line 42 * 100		0.0185		0.0241		0.0223		0.0176
45	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company records		0.0168		0.0168		0.0168		0.0168
46	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 44 + Line 43) * Line 42 /100	\$	12,630	\$	57,630	\$	46,899	\$	6,584
47	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Line 45 + PM Cum Bal	\$	(309,430)	\$	(251,800)	\$	(204,901)	\$	(198,317)
48	SC Projected Industrial Sales (October 2019 - September 2020)	Exhibit 3								9,171,268,692
49	SC Industrial Environmental Increment / (Decrement) (¢ per Kwh)	Line 46 / Line 47 * 100								(0.0022)

McGee Exhibit 5
DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS FOR THE 12 MONTHS OCTOBER 2019 TO SEPTEMBER 2020

CP %

2018 Firm

Coincident Peak (CP) KWs

Class

Line No.

		combiacher cak (cr / KWS		C: 70	_										
1	Residential	2,055,870		51.25%	_										
2	General Service / Lighting	958,783		23.90%											
3	Industrial	996,792		24.85%	_										
	Total SC	4,011,445		100.00%	_										
				October		November	D	ecember	January		February		March		
Line No.	Description	Reference		2019		2019		2019	2020		2020		2020	-	
4	Total Reagents		\$	1,695,592	\$	2,130,562	\$	2,113,351	\$ 3,348,13	l1 \$	3,183,158	\$	1,894,643		
5	Emission Allowances			235		321		343	45	58	455		305		
6	Estimated Off-system Sales			(2,884)		(4,956)		(3,832)	(95,75	50)	(73,185))	(8,091)	_	
7	Net Environmental Costs	Sum Lines 4 - 6	\$	1,692,944	\$	2,125,927	\$	2,109,862	\$ 3,252,83	19 \$	3,110,428	\$	1,886,858		
8	Total Projected System Sales kwhs (w/solar)	Exhibit 3	6,8	803,214,198	6	,495,662,262	7,1	86,884,482	7,903,467,72	22	7,808,874,524	7,	,353,013,933		
9	Environmental System Costs Incurred (¢ per Kwh)	Line 7 / Line 8 *100		0.0249		0.0327		0.0294	0.043	L2	0.0398		0.0257		
10	Projected SC Retail Sales kWh	Exhibit 3	1,7	706,250,685	1	,621,069,330	1,7	52,297,794	1,903,104,02	27	1,905,467,334	1,	,823,372,113		
11	SC Environmental Costs	Line 9 * Line 10 /100	\$	424,591	\$	530,550	\$	514,424	\$ 783,25	58 \$	758,985	\$	467,896		
Line No.	Description	Reference		April 2020		May 2020		June 2020	July 2020		August 2020	s	September 2020		12 Month Total
Line ivo.	Description	Hererenee		2020		2020		2020	2020		2020				10141
12	Total Reagents		\$	1,474,473	\$	1,588,860	\$	2,258,568			2,766,277		1,889,561	\$	27,303,485
13	Emission Allowances			227		208		324	45		426		276		4,031
14	Estimated Off-system Sales			(654)		(2,907)		(2,618)	(13,22	28)	(4,874))	(1,663)		(214,642)
15	Net Environmental Costs	Sum Lines 12 - 14	\$	1,474,046	\$	1,586,161	\$	2,256,274	\$ 2,947,55	51 \$	2,761,830	\$	1,888,174	\$	27,092,874
16	Total Projected System Sales kwhs (w/solar)	Exhibit 3	6,6	672,124,994	6	,463,555,894	7,0	48,447,873	8,241,762,23	39	8,635,074,609	8,	,178,560,496		88,790,643,227
17	Environmental System Costs Incurred (¢ per Kwh)	Line 15 / Line 16 *100		0.0221		0.0245		0.0320	0.035	58	0.0320		0.0231		
18	Projected SC Retail Sales kWh	Exhibit 3	1,6	687,895,589	1	,621,681,377	1,7	26,646,416	1,990,627,19	90	2,110,577,812	2,	,037,072,774		21,886,062,443
19	SC Environmental Costs	Line 17 * Line 18 /100	\$	372,900	\$	397,962	\$	552,716	\$ 711,92	20 \$	675,044	\$	470,296	\$	6,660,542
	SC Environmental Costs Allocated on Firm CP kWs														
20	Residential	Total Line 19 * Line 1												\$	3,413,535
21	General Service / Lighting	Total Line 19 * Line 2												\$	1,591,949
22	Industrial	Total Line 19 * Line 3												\$	1,655,058
23	Total SC	Sum Lines 20 through 22												\$	6,660,542
	Projected SC Retail Sales kWh (October 2019 - September 2020)														
24	Residential	Exhibit 3													6,728,320,673
25	General Service / Lighting	Exhibit 3													5,986,473,078
26	Industrial	Exhibit 3													9,171,268,692
27	Total SC	Sum Lines 24 through 26											•		21,886,062,443
	SC Enviromental Costs ¢/kWh														
28	Residential	Line 20 / Line 24 * 100													0.0507
29	General Service / Lighting	Line 21 / Line 25 * 100													0.0266
30	Industrial	Line 22 / Line 26 * 100													0.0180

McGee Exhibit 6 Page 1a of 3 **DOCKET NO 2019-3-E**

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Residential 2017 Firm Coincident Peak CP % 1 38.68%

Residential

2018 Firm Coincident Peak CP % 51.25%

Line No.	Description	Reference		June 2018		July 2018		August 2018		September 2018	Octo 201		١	November 2018
ว	Total PURPA Purchased Power Capacity Costs		ć	2,213,593	¢	6,677,009	ć	6,553,797	ċ	4,333,985	ė 2-	785,778	¢	1,113,419
3	• •		Ą		Ą	•	Ą		Ş	, ,		•	Ą	
3	Firm Natural Gas Transportation and Storage Costs			3,583,325		3,268,622		3,011,807		2,804,159		124,882		3,766,561
4	Total Capacity Related Costs	Line 2 + Line 3	\$	5,796,918	\$	9,945,631	Ş	9,565,603	Ş	7,138,145	\$ 4,9	910,660	Ş	4,879,980
5	Total System kWh Sales	Exhibit 2	7	7,999,801,237	8	3,477,178,071	8	3,257,882,938		9,497,758,228	6,334,8	328,962	6	,670,820,955
6	Capacity Related System Costs Incurred (¢/kWh)	Line 4 / Line 5* 100		0.0725		0.1173		0.1158		0.0752		0.0775		0.0732
7	SC Retail Sales kWh	Exhibit 2	1	1,960,743,382	1	1,991,741,085	2	2,009,609,778		2,449,765,120	1,479,4	186,530	1	,634,436,344
8	SC Capacity Related Cost Incurred	Line 6 * Line 7 / 100	\$	1,420,819		2,336,759		2,327,852		1,841,148		146,875		1,195,658
9	Residential Capacity Related Cost Allocated by Firm CP	Line 8 * Line 1	\$	551,865	\$	907,629	\$	904,169	\$	712,191	\$ 4	143,633	\$	462,503
10	SC Residential kWh Sales			609,213,656		685,061,515		638,545,237		696,736,494	491,7	727,445		435,458,622
11	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 9 / Line 10 * 100		0.0906		0.1325		0.1416		0.1022		0.0902		0.1062
12	SC Residential Billed (¢/kWh)	Company Records		0.1183		0.1183		0.1183		0.1183		0.1220		0.1274
13	SC Capacity Related (Over) / Under Recovery	(-Line 12 + Line 11)* Line 10 / 100	\$	(168,835)	\$	97,201	\$	148,770	\$	(112,048)	\$ (1	156,090)	\$	(92,070)
14	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$	(967,644)		•		ŕ	•	, ,	•	. ,	-	, , ,
15	Accounting Adjustment(s)	Ç	·	, , ,					\$	(9,703)	\$	483		
16	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 13 + Prior Month Cum Bal	\$	(1,136,479)	\$	(1,039,278)	\$	(890,508)	\$	(1,012,259)		167,865)	\$	(1,259,936)

			l	December	January		February	March		April	May	Τι	welve Months
Line No.	Description	Reference		2018	2019		2019	2019		2019	2019	En	ded May 2018
17	Total PURPA Purchased Power Capacity Costs		\$	965,775 \$	1,276,118	\$	1,480,302	\$ 1,190,304	\$	1,342,185 \$	1,317,666	\$	31,249,932
18	Firm Natural Gas Transportation and Storage Costs			2,647,691	3,335,159		2,703,586	1,815,402		2,732,560	4,314,428		36,108,182
19	Total Capacity Related Costs	Line 17 + Line 18	\$	3,613,466 \$	4,611,277	\$	4,183,888	\$ 3,005,706	\$	4,074,745 \$	5,632,094	\$	67,358,114
20	Total System kWh Sales	Exhibit 2	7	,490,426,895	7,560,242,873	7	7,420,082,024	6,511,025,145	6,3	356,600,998	6,715,599,810)	89,292,248,136
21	Capacity Related System Costs Incurred (¢/kWh)	Line 19 / Line 20* 100		0.0482	0.0610		0.0564	0.0462		0.0641	0.0839	1	
22	SC Retail Sales kWh	Exhibit 2	1	,797,159,761	1,793,547,356	1	1,805,776,337	1,563,564,949	1,5	573,895,668	1,667,964,212		21,727,690,522
23	SC Capacity Related Cost Incurred	Line 21 * Line 22 / 100	\$	866,970 \$	1,093,953	\$	1,018,205	\$ 721,793	\$	1,008,907 \$	1,398,852	\$	16,377,790
24	Residential PURPA Capacity Related Cost Allocated by Firm CP	Line 23 * Line 1	\$	335,361 \$	560,652	\$	521,831	\$ 369,920	\$	517,066 \$	716,913	\$	7,003,733
25	SC Residential kWh Sales			628,501,539	657,177,943		610,321,704	480,884,048	4	414,875,999	447,612,785		6,796,116,987
26	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 24 / Line 25 * 100		0.0534	0.0853		0.0855	0.0769		0.1246	0.1602		
27	SC Residential Billed (¢/kWh)	Company Records		0.1274	0.1274		0.1274	0.1274		0.1274	0.1274		
28	SC Capacity Related (Over) / Under Recovery	(-Line 27 + Line 26)*Line 25 / 100	\$	(465,350) \$	(276,593)	\$	(255,719)	\$ (242,726)	\$	(11,486) \$	146,654	\$	(1,388,292)
29	Accounting Adjustment(s)											\$	(9,220)
30	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 28 + Line 29 + PM Cum Bal	\$	(1,725,286) \$	(2,001,880)	\$	(2,257,598)	\$ (2,500,324)	\$	(2,511,810) \$	(2,365,156) \$	(2,365,156)

McGee Exhibit 6 Page 1b of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Residential Residential 2017 Firm Coincident Peak CP % 38.68% 2018 Firm Coincident Peak CP % 51.25%

Line No.	Description	Reference	Estimated June 2019	Estimated July 2019	Estimated August 2019	Estimated September 2019
31	Total PURPA Purchased Power Capacity Costs		\$ 2,628,938 \$	3,620,857 \$	3,550,928 \$	2,060,772
32	Firm Natural Gas Transportation and Storage Costs		 5,353,401	5,306,253	5,310,713	4,959,395
33	Total Capacity Related Costs	Line 29 + Line 30	\$ 7,982,338 \$	8,927,111 \$	8,861,642 \$	7,020,168
34	Total System kWh Sales	Exhibit 2	7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172
35	Capacity Related System Costs Incurred (¢/kWh)	Line 31 / Line 32* 100	0.1125	0.1098	0.1021	0.0864
36	SC Retail Sales kWh	Exhibit 2	1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150
37	SC Capacity Related Cost Incurred	Line 33 * Line 34 / 100	\$ 1,959,206 \$	2,162,200 \$	2,170,221 \$	1,752,434
38	Residential Capacity Related Cost Allocated by Firm CP	Line 35 * Line 1	\$ 1,004,095 \$	1,108,130 \$	1,112,241 \$	898,124
39	SC Projected Residential kWh Sales		486,895,816	619,213,465	687,169,454	628,981,205
40	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 36 / Line 37 * 100	0.2062	0.1790	0.1619	0.1428
41	SC Residential Billed (¢/kWh)	Docket No. 2017-3-E	0.1274	0.1274	0.1274	0.1274
42	SC Capacity Related (Over) / Under Recovery	(-Line 39 + Line 38)*Line 37 /100	\$ 383,790 \$	319,252 \$	236,787 \$	96,802
43	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 40 + Prior Month Cum Bal	\$ (1,981,366) \$	(1,662,114) \$	(1,425,328) \$	(1,328,525)
44	SC Projected Residential Sales (October 2019-September 2020)	Exhibit 3				6,728,320,673
45	SC Residential Capacity Related Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100				(0.0197)

McGee Exhibit 6 Page 2a of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

1

Line No.

2 Total PURPA Purchased Power Capacity Costs

General Service / Lighting

Reference

General Service / Lighting

2017 Firm Coincident Peak CP %

Description

28.28%

2018 Firm Coincident Peak CP % 23.90%

July		August		September		October		November
2018		2018		2018		2018		2018
6,677,009	\$	6,553,797	\$	4,333,985	\$	2,785,778	\$	1,113,419
3,268,622	\$	3,011,807	\$	2,804,159	\$	2,124,882	\$	3,766,561
9,945,631	\$	9,565,603	\$	7,138,145	\$	4,910,660	\$	4,879,980
,477,178,071		8,257,882,938		9,497,758,228		6,334,828,962		6,670,820,955
0.1173		0.1158		0.0752		0.0775		0.0732
,991,741,085		2,009,609,778		2,449,765,120		1,479,486,530		1,634,436,344
2,336,759	\$	2,327,852	\$	1,841,148	\$	1,146,875	\$	1,195,658
650 466	Ċ	656.052	ç	F20 740	Ċ	224 276	Ċ	220 172

3	Firm Natural Gas Transportation and Storage Costs		\$	3,583,325	\$ 3,268,622	\$ 3,011,807 \$	2,804,159 \$	2,124,882 \$	3,766,561
4	Total Capacity Related Costs	Line 2 + Line 3	\$	5,796,918	\$ 9,945,631	\$ 9,565,603 \$	7,138,145 \$	4,910,660 \$	4,879,980
5	Total System kWh Sales	Exhibit 2	-	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955
6	Capacity Related System Costs Incurred (¢/kWh)	Line 4 / Line 5* 100		0.0725	0.1173	0.1158	0.0752	0.0775	0.0732
7	SC Retail Sales kWh	Exhibit 2	:	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344
8	SC Capacity Related Cost Incurred	Line 6 * Line 7 / 100	\$	1,420,819	\$ 2,336,759	\$ 2,327,852 \$	1,841,148 \$	1,146,875 \$	1,195,658
9	General Service / Lighting Capacity Related Cost Allocated by Firm CP	Line 8 * Line 1	\$	400,975	\$ 659,466	\$ 656,953 \$	520,740 \$	324,376 \$	338,173
10	SC General Service / Lighting kWh Sales			532,609,815	555,007,748	534,768,585	608,217,191	471,984,556	426,666,805
11	SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh)	Line 9 / Line 10 * 100		0.0753	0.1188	0.1228	0.0856	0.0687	0.0793
12	SC General Service / Lighting Billed (¢/kWh)	Company Records		0.0959	0.0959	0.0959	0.0959	0.1039	0.1157
13	SC Capacity Related (Over) / Under Recovery	(-Line 12 + Line 11)* Line 10 / 100	\$	(109,798)	\$ 127,214	\$ 144,110 \$	(62,540) \$	(166,058) \$	(155,477)
14	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$	(11,852)					
15	Accounting Adjustment(s)	_				\$	3,775 \$	353	
16	Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	Line 13 + Prior Month Cum Bal	\$	(121,650)	\$ 5,564	\$ 149,674 \$	90,909 \$	(74,795) \$	(230,272)

June

2018

\$ 2,213,593 \$

				December	January	February	March	April	May	Twelve Months
Line No.	Description	Reference		2018	2019	2019	2019	2019	2019	Ended May 2018
17	Total PURPA Purchased Power Capacity Costs		\$	965,775 \$	1,276,118 \$	1,480,302 \$	1,190,304 \$	1,342,185 \$	1,317,666 \$	31,249,932
18	Firm Natural Gas Transportation and Storage Costs		\$	2,647,691 \$	3,335,159 \$	2,703,586 \$	1,815,402 \$	2,732,560 \$	4,314,428 \$	36,108,182
19	Total Capacity Related Costs	Line 17 + Line 18	\$	3,613,466 \$	4,611,277 \$	4,183,888 \$	3,005,706 \$	4,074,745 \$	5,632,094 \$	67,358,114
20	Total System kWh Sales	Exhibit 2	7	7,490,426,895	7,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	89,292,248,136
21	Capacity Related System Costs Incurred (¢/kWh)	Line 19 / Line 20* 100		0.0482	0.0610	0.0564	0.0462	0.0641	0.0839	
22	SC Retail Sales kWh	Exhibit 2	1	1,797,159,761	1,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	21,727,690,522
23	SC Capacity Related Cost Incurred	Line 21 * Line 22 / 100	\$	866,970 \$	1,093,952 \$	1,018,205 \$	721,794 \$	1,008,908 \$	1,398,852 \$	16,377,791
24	General Service / Lighting Capacity Related Cost Allocated by Firm CP	Line 23 * Line 1	\$	245,209 \$	261,468 \$	243,363 \$	172,517 \$	241,141 \$	334,342 \$	4,398,723
25	SC General Service / Lighting kWh Sales			445,252,198	455,887,041	446,297,147	406,630,406	413,949,578	461,349,327	5,758,620,397
26	SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh)	Line 24 / Line 25 * 100		0.0551	0.0574	0.0545	0.0424	0.0583	0.0725	
27	SC General Service / Lighting Billed (¢/kWh)	Company Records		0.1158	0.1158	0.1158	0.1158	0.1158	0.1158	
28	SC Capacity Related (Over) / Under Recovery	(-Line 27 + Line 26)*Line 25 / 100	\$	(270,393) \$	(266,449) \$	(273,449) \$	(298,361) \$	(238,213) \$	(199,901) \$	(1,769,314)
29	Accounting Adjustment(s)								\$	4,128
30	Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	Line 28 + Line 29 + PM Cum Bal	\$	(500,665) \$	(767,114) \$	(1,040,563) \$	(1,338,923) \$	(1,577,136) \$	(1,777,037) \$	(1,777,038)

McGee Exhibit 6 Page 2b of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE

CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.		_				
1	2017 Firm Coincident Peak CP %	General Service / Lighting 28.28%	2018 Firm Co	oincident Peak CP %	General Service / Ligh 23.90%	nting
Line No.	Description	Reference	Estimated June 2019	Estimated July 2019	Estimated August 2019	Estimated September 2019
	Description.	Kererenee				
31	Total PURPA Purchased Power Capacity Costs		\$ 2,628,938 \$	3,620,857 \$	3,550,928 \$	2,060,772
32	Firm Natural Gas Transportation and Storage Costs		\$ 5,353,401 \$	5,306,253 \$	5,310,713 \$	4,959,395
33	Total Capacity Related Costs	Line 29 + Line 30	\$ 7,982,338 \$	8,927,111 \$	8,861,642 \$	7,020,168
34	Total System kWh Sales	Exhibit 2	7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172
35	Capacity Related System Costs Incurred (¢/kWh)	Line 31 / Line 32* 100	0.1125	0.1098	0.1021	0.0864
36	SC Retail Sales kWh	Exhibit 2	1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150
37	SC Capacity Related Cost Incurred	Line 33 * Line 34 / 100	\$ 1,959,206 \$	2,162,200 \$	2,170,221 \$	1,752,434
38	General Service / Lighting Capacity Related Cost Allocated by Firm CP	Line 35 * Line 1	\$ 468,274 \$	516,792 \$	518,709 \$	418,853
39	SC General Service / Lighting kWh Sales		503,131,126	558,701,811	586,229,211	562,074,280
40	SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh)	Line 36 / Line 37 * 100	0.0931	0.0925	0.0885	0.0745
41	SC General Service / Lighting Billed (¢/kWh)	Docket No. 2017-3-E	0.1158	0.1158	0.1158	0.1158
42	SC Capacity Related (Over) / Under Recovery	(-Line 39 + Line 38)*Line 37 /100	\$ (114,352) \$	(130,185) \$	(160,145) \$	(232,029)
43	Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	Line 40 + Prior Month Cum Bal	\$ (1,891,390) \$	(2,021,575) \$	(2,181,720) \$	(2,413,749)
44	SC Projected General Service / Lighting Sales (October 2019 - September 2020)	Exhibit 3				5,986,473,078
45	SC General Service / Lighting Capacity Related Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100				(0.0403)

McGee Exhibit 6 Page 3a of 3 **DOCKET NO 2019-3-E**

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Industrial 2017 Firm Coincident Peak CP % 33.03%

Industrial 2018 Firm Coincident Peak CP %

24.85%

Line No.	Description	Reference		June 2018		July 2018		August 2018		September 2018		October 2018	N	lovember 2018
2	Total PURPA Purchased Power Capacity Costs		Ś	2,213,593	\$	6,677,009	\$	6,553,797	\$	4,333,985	Ś	2,785,778 \$		1,113,419
3	Firm Natural Gas Transportation and Storage Costs		*	3,583,325	•	3,268,622	-	3,011,807	-	2,804,159				3,766,561
4	Total Capacity Related Costs	Line 2 + Line 3	\$	5,796,918	\$	9,945,631		9,565,603		7,138,145				4,879,980
5	Total System kWh Sales	Exhibit 2	-	7,999,801,237	8	,477,178,071	8	3,257,882,938		9,497,758,228		6,334,828,962		6,670,820,955
6	Capacity Related Costs Incurred (¢/kWh)	Line 4 / Line 5* 100		0.0725		0.1173		0.1158		0.0752		0.0775		0.0732
7	SC Retail Sales kWh	Exhibit 2	:	1,960,743,382	1	,991,741,085	2	2,009,609,778		2,449,765,120		1,479,486,530		1,634,436,344
8	SC Capacity Related Cost Incurred	Line 6 * Line 7 / 100	\$	1,420,819	\$	2,336,759	\$	2,327,852	\$	1,841,148	\$	1,146,875 \$		1,195,658
9	Industrial Capacity Related Cost Allocated by Firm CP	Line 8 * Line 1	\$	467,979	\$	769,664	\$	766,730	\$	608,217	\$	378,866 \$		394,981
10	SC Industrial kWh Sales			818,919,911		751,671,822		836,295,956		1,144,811,435		515,774,529		772,310,917
11	SC Industrial Capacity Related Cost Incurred (¢/kWh)	Line 9 / Line 10 * 100		0.0571		0.1024		0.0917		0.0531		0.0735		0.0511
12	SC Industrial Billed (¢/kWh)	Company Records		0.0623		0.0623		0.0623		0.0623		0.0735		0.0900
13	SC Capacity Related (Over) / Under Recovery	(-Line 12 + Line 11)* Line 10 / 100	\$	(42,208)	\$	301,372	\$	245,718	\$	(105,001)	\$	(168) \$		(299,783)
14	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$	68,866										, , ,
15	Accounting Adjustment(s)	_							\$	5,928	\$	413		
16	Cumulative SC Industrial Capacity Related (Over) / Under Recovery	Line 13 + Prior Month Cum Bal	\$	26,658	\$	328,030	\$	573,748	\$	474,675	\$	474,920 \$		175,137

Line No.	Description	Reference	Decembe 2018	r 	January 2019	February 2019	March 2019	April 2019	May 2019	Twelve Months Ended May 2018
17	Total PURPA Purchased Power Capacity Costs		\$ 965.	775 \$	5 1,276,118	\$ 1,480,302 \$	1,190,304 \$	1,342,185 \$	1,317,666	\$ 31,249,932
18	Firm Natural Gas Transportation and Storage Costs		\$ 2,647,			\$ 2,703,586 \$	1,815,402 \$		4,314,428	36,108,182
19	Total Capacity Related Costs	Line 17 + Line 18	\$ 3,613,			d 4402.000 d	3,005,706 \$		5,632,094	
20	Total System kWh Sales	Exhibit 2	7,490,426,	895	7,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	89,292,248,136
21	Capacity Related Costs Incurred (¢/kWh)	Line 19 / Line 20* 100	0.0	482	0.0610	0.0564	0.0462	0.0641	0.0839	
22	SC Retail Sales kWh	Exhibit 2	1,797,159,	761	1,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	21,727,690,522
23	SC Capacity Related Cost Incurred	Line 21 * Line 22 / 100	\$ 866,	970 \$	1,093,952	\$ 1,018,205 \$	721,794 \$	1,008,908 \$	1,398,852	\$ 16,377,791
24	Industrial Capacity Related Cost Allocated by Firm CP	Line 23 * Line 1	\$ 286,	401 \$	271,833	\$ 253,011 \$	179,356 \$	250,700 \$	347,597	\$ 4,975,335
25	SC Industrial kWh Sales		723,406,	024	680,482,372	749,157,486	676,050,495	745,070,091	759,002,100	9,172,953,138
26	SC Industrial Capacity Related Cost Incurred (¢/kWh)	Line 24 / Line 25 * 100	0.0	396	0.0399	0.0338	0.0265	0.0336	0.0458	
27	SC Industrial Billed (¢/kWh)	Company Records	0.0	901	0.0901	0.0901	0.0901	0.0901	0.0901	
28	SC Capacity Related (Over) / Under Recovery	(-Line 27 + Line 26)*Line 25 / 100	\$ (365,	388) \$	(341,282)	\$ (421,980) \$	(429,765) \$	(420,608) \$	(336,264)	\$ (2,215,357)
29	Accounting Adjustment(s)									\$ 6,341
30	Cumulative SC Industrial Capacity Related (Over) / Under Recovery	Line 28 + Line 29 + PM Cum Bal	\$ (190,	251) \$	(531,533)	\$ (953,513) \$	(1,383,278) \$	(1,803,886) \$	(2,140,150)	\$ (2,140,150)

McGee Exhibit 6 Page 3b of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES FOR JUNE 2018 - SEPTEMBER 2019

Line No.

Industrial

2017 Firm Coincident Peak CP % 33.03% 2018 Firm Coincident Peak CP % 24.85%

1	2017 Firm Coincident Pea	ak CP % 33.03%			2018 Firm Co	incio	dent Peak CP %	24.85%
Line No.	Description	Reference	1	Estimated June 2019	Estimated July 2019		Estimated August 2019	Estimated September 2019
Line No.	Description	Reference		2013	2013		2013	2013
31	Total PURPA Purchased Power Capacity Costs		\$	2,628,938	\$ 3,620,857	\$	3,550,928	\$ 2,060,772
32	Firm Natural Gas Transportation and Storage Costs			5,353,401	5,306,253		5,310,713	4,959,395
33	Total Capacity Related Costs	Line 29 + Line 30	\$	7,982,338	\$ 8,927,111	\$	8,861,642	\$ 7,020,168
34	Total System kWh Sales	Exhibit 2	7	,097,791,674	8,128,668,264	;	8,680,327,632	8,129,028,172
35	Capacity Related Costs Incurred (¢/kWh)	Line 31 / Line 32* 100		0.1125	0.1098		0.1021	0.0864
36	SC Retail Sales kWh	Exhibit 2	1	,742,100,557	1,968,812,531	:	2,125,817,048	2,029,237,150
37	SC Capacity Related Cost Incurred	Line 33 * Line 34 / 100	\$	1,959,206	\$ 2,162,200	\$	2,170,221	\$ 1,752,434
38	Industrial Capacity Related Cost Allocated by Firm CP	Line 35 * Line 1	\$	486,837	\$ 537,279	\$	539,272	\$ 435,457
39	SC Projected Industrial kWh Sales			752,073,616	790,897,255		852,418,383	838,181,666
40	SC Industrial Capacity Related Cost Incurred (¢/kWh)	Line 36 / Line 37 * 100		0.0647	0.0679		0.0633	0.0520
41	SC Industrial Billed (¢/kWh)	Docket No. 2017-3-E		0.0901	0.0901		0.0901	0.0901
42	SC Capacity Related (Over) / Under Recovery	(-Line 39 + Line 38)*Line 37 /100	\$	(190,781)	\$ (175,320)	\$	(228,757)	\$ (319,745)
43	Cumulative SC Industrial Capacity Related (Over) / Under Recovery	Line 40 + Prior Month Cum Bal	\$	(2,330,931)	\$ (2,506,251)	\$	(2,735,008)	\$ (3,054,753)
44	SC Projected Industrial Sales (October 2019 - September 2020)	Exhibit 3						9,171,268,692
45	SC Industrial Capacity Related Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100						(0.0333)

McGee Exhibit 7
DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE PROJECTED BILLING PERIOD CAPACITY RELATED COSTS FOR THE 12 MONTHS OCTOBER 2019 TO SEPTEMBER 2020

2018 Firm

Line No.	Class	Coincident Peak (CP) KWs	CP %
1	Residential	2,055,870	51.25%
2	General Service / Lighting	958,783	23.90%
3	Industrial	996,792	24.85%
	Total SC	4,011,445	100.00%

Firm Natural Cas Transportation and Storage Costs 1	Line No.	Description	Reference	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020	
Total Projected System Sales kwhs (w/solar)	5	Firm Natural Gas Transportation and Storage Costs	Line 4 + Line 5	4,396,400	4,950,316	5,518,788	6,130,293	6,185,346	5,428,557	
Projected SC Retail Sales kWh Exhibit 3 1,706,220,685 1,624,6625 5 1,708,385 5 1,893,410,027 1,905,467,334 1,283,372,133 1,283,472,135 1,284,0783 1,	7									
Total PURPA Purchased Power Capacity Costs PURPA Purchased Power Capacity Related Costs Incurred (Purchased Power Capacity Related System Sales kwhs (W/solar) Purchased Power Capacity Related System Costs Incurred (Purchased Power Capacity Related Costs Incurred (Purchased Purchased Purchas	9	Projected SC Retail Sales kWh	Exhibit 3	1,706,250,685	1,621,069,330	1,752,297,794	1,903,104,027	1,905,467,334	1,823,372,113	
11 Total PURPA Purchased Power Capacity Costs 12 Firm Natural Gas Transportation and Storage Costs 13 Total Capacity Costs 14 Total Capacity Costs 15 Capacity Related Costs Incurred (r/Kwh) 16 Projected System Sales kwhs (w/solar) 17 SC Capacity Related Costs Incurred 18 Residential 19 General Service / Lighting 20 Industrial 21 Total SC 22 Residential 22 Residential 23 Exhibit 3 24 Exhibit 3 25 Capacity Related Costs (r/Lighting 24 Exhibit 3 25 Total SC 25 Capacity Related Costs (r/Lighting 26 Residential 27 Total Line 17 * Line 18 / Line 19 / Line	Line No	Description	Reference					_	•	
Firm Matural Cas Transportation and Storage Costs 1	Line No.	Description	Reference	2020	2020	2020	2020	2020	2020	Total
14 Total Projected System Sales kwhs (w/solar) 15 Capacity Related System Costs Incurred (c/Kwh) 16 Projected SC Retail Sales kWh 17 SC Capacity Related Costs Incurred 18 Residential 19 General Service / Lighting 21 Total SC 22 Residential 23 Exhibit 3 24 Exhibit 3 25 Capacity Related Costs c/KWh 26 Exhibit 3 26 Fibril 3 27 Total Line 17* Line 1 28 Fibril 3 29 Fibril 3 20 Fibril 3 20 Fibril 3 20 Fibril 3 21 Total SC 22 Residential 23 Fibril 3 24 Fibril 3 25 Capacity Related Costs c/KWh 26 Fibril 3 27 Fibril 3 28 Fibril 3 29 Fibril 3 20 Fibril 3 21 Fibril 3 22 Fibril 3 23 General Service / Lighting 24 Fibril 3 25 Fibril 3 26 Fibril 3 27 Fibril 3 28 Fibril 3 29 Fibril 3 20 Fibril 4 2		·								28,866,361 76,723,150
15 Capacity Related System Costs Incurred (c/Kwh) Line 13 / Line 14 *100 0.1378 0.1584 0.1467 0.1389 0.1313 0.1204 Exhibit 3 1,687,895,589 1,621,681,377 1,726,646,416 1,990,627,190 2,110,577,812 2,037,072,774 21,886,062,44	13	Total Capacity Costs	Line 11 + Line 12	\$ 9,197,340	\$ 10,239,768	\$ 10,340,531	\$ 11,449,904 \$	11,338,434	\$ 9,845,836 \$	105,589,512
Frojected SC Retail Sales kWh Exhibit 3 1,687,895,589 1,621,681,377 1,726,646,416 1,990,627,190 2,110,577,812 2,037,072,774 21,886,062,44 17 SC Capacity Related Costs Incurred Line 15 * Line 16 / 100 \$ 2,326,717 \$ 2,569,118 \$ 2,533,102 \$ 2,765,487 \$ 2,771,331 \$ 2,452,349 \$ 26,034,79 \$ 26,034,79 \$ 2,037,072,774 2,037,072,74 2,037,072,74										88,790,643,227
SC Capacity Related Costs Allocated on Firm CP kWs	16	Projected SC Retail Sales kWh	Exhibit 3	1,687,895,589	1,621,681,377	1,726,646,416	1,990,627,190	2,110,577,812	2,037,072,774	21,886,062,443
18 Residential Total Line 17 * Line 1 \$ 13,342,85 19 General Service / Lighting Total Line 17 * Line 2 \$ 6,222,62 20 Industrial \$ 70tal Line 17 * Line 3 \$ 6,669,30 21 Total SC Sum Lines 18 through 20 \$ 26,034,79 Projected SC Retail Sales kWh (October 2019 - September 2020) 22 Residential Exhibit 3 6,728,320,67 23 General Service / Lighting Exhibit 3 5,788,473,07 24 Industrial 5,986,473,07 25 Total SC Sum Lines 22 through 24 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs c/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.198	17	SC Capacity Related Costs Incurred	Line 15 * Line 16 /100	\$ 2,326,717	\$ 2,569,118	\$ 2,533,102	\$ 2,765,487 \$	2,771,331	\$ 2,452,349 \$	26,034,790
19 General Service / Lighting Total Line 17 * Line 2 \$ 6,222,62 20 Industrial Total Line 17 * Line 3 \$ 6,469,30 21 Total SC Sum Lines 18 through 20 \$ 26,034,79 Projected SC Retail Sales kWh (October 2019 - September 2020) 22 Residential Exhibit 3 6,728,320,67 23 General Service / Lighting Exhibit 3 5,986,473,07 24 Industrial Exhibit 3 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs ¢/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.103		SC Capacity Related Costs Allocated on Firm CP kWs								
20 Industrial Total Line 17 * Line 3 \$ 6,469,30 21 Total SC Sum Lines 18 through 20 \$ 26,034,79 Projected SC Retail Sales kWh (October 2019 - September 2020) 22 Residential Exhibit 3 6,728,320,67 23 General Service / Lighting Exhibit 3 5,986,473,07 24 Industrial Exhibit 3 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs ¢/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.103	18		Total Line 17 * Line 1						\$	13,342,858
21 Total SC Sum Lines 18 through 20 \$ 26,034,79 Projected SC Retail Sales kWh (October 2019 - September 2020) 22 Residential Exhibit 3 6,728,320,67 23 General Service / Lighting Exhibit 3 5,986,473,07 24 Industrial Exhibit 3 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs ¢/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.103	19	General Service / Lighting	Total Line 17 * Line 2						\$	6,222,624
Projected SC Retail Sales kWh (October 2019 - September 2020) 22 Residential Exhibit 3 6,728,320,67 23 General Service / Lighting Exhibit 3 5,986,473,07 24 Industrial Exhibit 3 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs c/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.103	20								\$	6,469,307
22 Residential Exhibit 3 6,728,320,67 23 General Service / Lighting Exhibit 3 5,986,473,07 24 Industrial Exhibit 3 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs ¢/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.103	21	Total SC	Sum Lines 18 through 20						\$	26,034,790
23 General Service / Lighting Exhibit 3 5,986,473,07 24 Industrial 9,171,268,69 25 Total SC Sum Lines 22 through 24 21,886,062,44 SC Capacity Related Costs ¢/kWh 26 Residential Line 18 / Line 22 * 100 0.198 27 General Service / Lighting Line 19 / Line 23 * 100 0.103										
24IndustrialExhibit 325Total SCSum Lines 22 through 24SC Capacity Related Costs ¢/kWh26ResidentialLine 18 / Line 22 * 10027General Service / LightingLine 19 / Line 23 * 100										6,728,320,673
25 Total SC Sum Lines 22 through 24 SC Capacity Related Costs ¢/kWh 26 Residential Line 18 / Line 22 * 100 27 General Service / Lighting Line 19 / Line 23 * 100 Control Scrotter And Sc										
26 Residential Line 18 / Line 22 * 100 27 General Service / Lighting Line 19 / Line 23 * 100 0.103 0.103										9,171,268,692 21,886,062,443
26 Residential Line 18 / Line 22 * 100 27 General Service / Lighting Line 19 / Line 23 * 100 0.103 0.103		SC Capacity Related Costs ¢/kWh								
	26		Line 18 / Line 22 * 100							0.1983
28 Industrial Line 20 / Line 24 * 100 0.070	27	General Service / Lighting	Line 19 / Line 23 * 100							0.1039
	28	Industrial	Line 20 / Line 24 * 100							0.0705

McGee Exhibit 8
Page 1 of 2
DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS FOR THE PERIOD JUNE 2018 - SEPTEMBER 2019

Line No.	Description	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018
	DERP Incremental Costs							
1	Purchased Power Agreements		\$ - \$	- \$	- :	\$ - \$	- \$	-
2	DERP NEM Incentive		264,771	272,870	285,145	292,579	315,749	322,425
3	Solar Rebate Program - Amortization		228,110	228,484	238,288	244,772	244,788	244,856
4	Solar Rebate Program - Carrying Costs		223,833	222,904	226,966	233,911	233,473	232,088
5	Shared Solar Program		-	-				-
6	NEM Avoided Capacity Costs		33,811	34,448	35,483	36,153	36,380	36,825
7	NEM Meter Costs		42,882	44,087	45,829	46,932	54,006	55,712
8	General and Administrative Expenses		31,505	39,400	34,024	24,586	21,397	23,957
9	Interest on capped Industrial undercollection						471	448
10	Total DERP Incremental Costs	Sum Lines 1 - 9	\$ 824,912 \$	842,193 \$	865,734	\$ 878,934 \$	906,264 \$	916,311
11	Revenue Collected	Company Record	\$ 308,530 \$	307,025 \$	307,543	\$ 310,532 \$	610,097 \$	915,558
12	SC DERP Incremental (Over)/Under Recovery	Line 10 - Line 11	\$ 516,382 \$	535,168 \$	558,191	\$ 568,402 \$	296,167 \$	753
13	(Over)/Under Cumulative Balance-May 2018	Prior Year annual filing	\$ (966,265)					
14	Adjustments	_	• • • • • • • • • • • • • • • • • • •		:	\$ (49,569)		
15	Cumulative SC DERP Incremental (Over)/ Under Recovery	PM Cum bal + Line 12 + Line 14	\$ (449,883) \$	85,285 \$	643,476	\$ 1,162,309 \$	1,458,476 \$	1,459,229

			[December	January	February	March	April	May	Twelve Months
Line No.	Description	Reference		2018	2019	2019	2019	2019	2019	Ended May 2019
	DERP Incremental Costs									
16	Purchased Power Agreements		\$	- \$	- \$	- \$	10,980 \$	2,938 \$	1,372	\$ 15,290
17	DERP NEM Incentive			326,530	334,168 \$	336,848 \$	339,100	341,751	345,950	3,777,886
18	Solar Rebate Program - Amortization			244,839	250,339 \$	250,339 \$	253,866	(1,459,065)	9,191	978,806
19	Solar Rebate Program - Carrying Costs			230,685	232,109 \$	233,573 \$	233,964	234,335	232,869	2,770,711
20	Shared Solar Program			-	\$	-		6,215	21,739	27,955
21	NEM Avoided Capacity Costs			37,070	35,226 \$	35,427 \$	35,680	35,853	36,218	428,573
22	NEM Meter Costs			56,211	57,058 \$	57,481 \$	57,883	58,264	58,906	635,250
23	General and Administrative Expenses			29,306	(29,218) \$	(86,863) \$	7,916	44,406	27,894	168,309
24	Interest on capped Industrial undercollection		\$	448	174	140	398	-	76	2,155
25	Total DERP Incremental Costs	Sum Lines 16 - 24	\$	925,089 \$	879,856 \$	826,946 \$	939,787 \$	(735,304) \$	734,216	\$ 8,804,937
26	Revenue Collected	Company Record	\$	912,704 \$	919,094 \$	914,455 \$	917,852 \$	917,848 \$	921,942	\$ 8,263,180
27	SC DERP Incremental (Over)/Under Recovery	Line 25 - Line 26	\$	12,385 \$	(39,238) \$	(87,509) \$	21,935 \$	(1,653,152) \$	(187,727)	\$ 541,757
28	Adjustments						\$	10 \$	(191)	\$ (49,750)
29	Cumulative SC DERP Incremental (Over)/ Under Recovery	PM Cum bal + Line 27 + Line 28	\$	1,471,614 \$	1,432,376 \$	1,344,868 \$	1,366,803 \$	(286,339) \$	(474,257)	\$ (474,257)

Note (1) Adjustments represent prior period adjustments reflected in the monthly Schedule 4 filings.

Note (2) Totals may not add due to rounding

McGee Exhibit 8 Page 2 of 2 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS FOR THE PERIOD JUNE 2018 - SEPTEMBER 2019

ine No.	Description	Reference	E	stimated June 2019	E	Stimated July 2019		stimated August 2019	Estimated September 2019	er	Estimated 4 months nded Sept 2019
	DERP Incremental Costs										
30	Purchased Power Agreements		\$	_	Ś	_	Ś	_	\$ -	\$	_
31	DERP NEM Incentive			483,289		466,167	•	421,063	389,37		1,759,892
32	Solar Rebate Program - Amortization			9,191		12,820		12,820	12,82		47,650
33	Solar Rebate Program - Carrying Costs			8,930		10,684		12,418	12,34		44,378
34	Shared Solar Program			5,023		5,023		5,023	5,02		20,091
35	NEM Avoided Capacity Costs			48,135		49,327		50,179	51,03	32	198,674
36	NEM Meter Costs			62,647		63,587		64,512	65,43	88	256,184
37	General and Administrative Expenses			79,789		79,789		79,789	79,78	39	319,157
38	Interest on capped Industrial undercollection			30		26		5	-		62
39	Total DERP Incremental Costs	Sum Lines 30 - 38	\$	697,035	\$	687,422	\$	645,809	\$ 615,82	21 \$	2,646,088
40	Estimated Revenue Collected		\$	907,141	\$	907,645	\$	908,167	\$ 908,72	.1 \$	3,631,665
41	SC DERP Incremental (Over)/Under Recovery	Line 39 - Line 40	\$	(210,105)	\$	(220,223)	\$	(262,358)	\$ (292,89	90) \$	(985,577)
42	Adjustments									-	
43	Cumulative SC DERP Incremental (Over)/ Under Recovery	PM Cum bal + Line 41 + Line 42	\$	(684,363)	\$	(904,586)	\$	(1,166,944)	\$ (1,459,83	34) \$	(1,459,834)

Note (1) Totals may not add due to rounding

McGee Exhibit 9
DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP INCREMENTAL COSTS (OVER)/UNDER RECOVERY FOR THE PERIOD JUNE 2018 - SEPTEMBER 2019

			thr	June 2018 rough September 2019	
1 Cumulative DERP Incremental (Over)/ Under Recovery Balance	Exhibit 8 Line 43		\$	(1,459,834)	
	Firm Peak Demand -	June 2018	(0	over)/Under Recovery Allocated per	
Allocation of DERP Incremental (Over)/Under Recovery	2018	through September 2019		Firm Peak Demand	
2 Residential	51.25%		\$	(748,167)	
3 General	23.90%			(348,918)	
4 Industrial	24.85%			(362,750)	
5 Total	100.00%	\$ (1,459,834)	\$	(1,459,834)	
	(Over)/Under Recovery				
	Allocated per	Projected Number of		\$ per Account per	\$ per Account per
	Firm Peak Demand	Accounts in Billing Period		Year	Month
6 Residential	\$ (748,167)	496,576	\$	(1.51) \$	(0.13)
7 General	(348,918)	73,287	\$	(4.76) \$	(0.40)
8 Industrial	(362,750)	1,575	\$	(230.32) \$	(19.19)
9 Total	\$ (1,459,834)	571,438			

McGee Exhibit 10 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS FOR THE 12 MONTHS OCTOBER 2019 TO SEPTEMBER 2020

Line No.	Description	Reference	•	October 2019	N	lovember 2019	C	December 2019		January 2020	F	February 2020		March 2020		
	DERP Incremental Costs															
1	Purchased Power Agreements		\$	-	\$	-	\$	21,169	\$	30,682	\$	34,108	\$	34,108		
2	DERP NEM Incentive		\$	441,141	\$	319,096	•	252,336		359,671		406,996	\$	484,315		
3	Solar Rebate Program - Amortization		\$	12,820	\$	12,820		20,343		20,343		20,343	\$	20,343		
4	Solar Rebate Program - Carrying Costs		\$	12,276	\$	12,205	\$	15,877		19,507	\$	19,394		19,282		
5	Shared Solar Program		\$	4,928	\$	4,928	\$	4,928	\$	4,928		4,928	\$	4,928		
6	NEM Avoided Capacity Costs		\$	44,144		44,863		46,216		47,001		47,728		47,857		
7	NEM Meter Costs		\$	66,363	\$	67,293	\$	68,238	\$	69,182	\$	70,127	\$	71,076		
8	General and Administrative Expenses		\$	79,789	\$	79,789	\$	79,789	\$	42,340	\$	42,340	\$	42,340		
9	Total DERP Incremental Costs	Sum Lines 1 - 9	\$	661,461	\$	540,995	\$	508,895	\$	593,653	\$	645,963	\$	724,249		
				April		May		June		July		August	S	eptember		12 Month
Line No.	Description	Reference		2020		2020		2020		2020		2020		2020		Total
	DERP Incremental Costs															
10	Purchased Power Agreements		\$	34,108	\$	34,108	\$	34,108	\$	36,816	\$	36,816	\$	43,824	\$	339,845
11	DERP NEM Incentive		·	614,650	\$	610,920	-	623,883	\$	590,138	\$	523,529	\$	474,323	•	5,700,999
12	Solar Rebate Program - Amortization			20,343	-	20,343		27,542	-	27,542		27,542	-	30,090		260,409
13	Solar Rebate Program - Carrying Costs			19,169	\$	19,057	\$	22,526	\$	25,955	\$	25,802	\$	26,918		237,968
14	Shared Solar Program			4,928		4,928	\$	4,928		4,928		4,928		4,928		59,137
15	NEM Avoided Capacity Costs			47,857	\$	47,857		47,857		47,857		47,857		47,857		564,952
16	NEM Meter Costs			72,031	\$	72,990	\$	73,964	\$	74,942	\$	75,926	\$	76,923		859,054
17	General and Administrative Expenses			42,340	\$	42,340	\$	42,340	\$	42,340	\$	42,340	\$	42,340		620,429
18	Total DERP Incremental Costs	Sum Lines 10 - 17	Ś	855,426	Ś	852,542	Ś	877,147	Ś	850,518	Ś	784,740	Ś	747,204	Ś	8,642,793

McGee Exhibit 11
DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP PROJECTED BILLING PERIOD COST FACTORS FOR THE PERIOD OCTOBER 2019 - SEPTEMBER 2020

			C	October 2019 through September 2020	
1 Total DERP Projected Incremental Costs	Exhibit 10 Line 18		\$	8,642,793	
Allocation of DERP Incremental Costs	Firm Peak Demand - 2018	October 2019 through September 2020		Cost Allocated per Firm Peak Demand	
2 Residential	51.25%	•	\$	4,429,441	
3 General	23.90%			2,065,730	
4 Industrial	24.85%			2,147,622	
5 Total	100.00%	\$ 8,642,793	\$	8,642,793	
	Total Cost Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period		\$ per Account per Year	\$ per Account per Month
6 Residential	\$ 4,429,441	496,576	\$	8.92	\$ 0.74
7 General	2,065,730	73,287	\$	28.19	\$ 2.35
8 Industrial	2,147,622	1,575	\$	1,363.57	\$ 113.63
9 Total	\$ 8,642,793	571,438	_		

McGee Exhibit 12 Page 1a of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Residential
2017 Firm Coincident Peak CP % 38.68%

2018 Firm Coincident Peak CP %

Residential 51.25%

Line No	. Description	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018
2	Purchased Power Agreements		\$ 284 \$	309 \$	518 \$	286 \$	389 \$	176
3	Shared Solar Program		 -	-	-	-	-	-
4	Total DERP Avoided Costs	Line 2 + Line 3	\$ 284 \$	309 \$	518 \$	286 \$	389 \$	176
5	Total System kWh Sales	Exhibit 2	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955
6	DERP Avoided System Cost - (¢/kWh)	Line 4 / Line 5* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	SC Retail Sales kWh	Exhibit 2	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344
8	SC DERP Avoided Costs	Line 6 * Line 7 / 100	\$ 70 \$	73 \$	125 \$	74 \$	91 \$	43
9	Residential DERP Avoided Costs Allocated by Firm CP	Line 8 * Line 1	\$ 27 \$	28 \$	48 \$	29 \$	35 \$	17
10	SC Residential kWh Sales		609,213,656	685,061,515	638,545,237	696,736,494	491,727,445	435,458,622
11	SC Residential DERP Avoided Cost (¢/kWh)	Line 9 / Line 10 * 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	SC Residential Rate Billed (¢/kWh)	Company Records	(0.0015)	(0.0015)	(0.0015)	(0.0015)	(0.0007)	0.0006
13	SC DERP Avoided Cost (Over) / Under Recovery	(Line 11 - Line 12) * Line 10 / 100	\$ 9,165 \$	10,304 \$	9,627 \$	10,480 \$	3,255 \$	(2,549)
14	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$ (26,775)					
15	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 13 + PM Cum Bal	\$ (17,610) \$	(7,305) \$	2,322 \$	12,802 \$	16,057 \$	13,509

Line No	Description	Reference	December 2018		January 2019	February 2019	March 2019	April 2019	•	Twelve Months Inded May 2018
		Nerer enec								
16	Purchased Power Agreements		\$	149 \$	133 \$	18,720 \$	36,552 \$	23,863 \$	3,960 \$	85,341
17	Shared Solar Program			-	-	-	-	15,982	24,918	40,901
18	Total DERP Avoided Costs	Line 16 + Line 17	\$	149 \$	133 \$	18,720 \$	36,552 \$	39,846 \$	28,879 \$	126,243
19	Total System kWh Sales	Exhibit 2		7,490,426,895	7,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	89,292,248,136
20	DERP Avoided System Cost - (¢/kWh)	Line 18 / Line 19* 100		0.0000	0.0000	0.0003	0.0006	0.0006	0.0004	
21	SC Retail Sales kWh	Exhibit 2		1,797,159,761	1,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	21,727,690,522
22	SC DERP Avoided Costs	Line 20 * Line 21 / 100	\$	36 \$	32 \$	4,556 \$	8,777 \$	9,866 \$	7,172 \$	30,913
23	Residential DERP Avoided Costs Allocated by Firm CP	Line 22 * Line 1	\$	14 \$	16 \$	2,335 \$	4,499 \$	5,056 \$	3,676 \$	15,780
24	SC Residential kWh Sales			628,501,539	657,177,943	610,321,704	480,884,048	414,875,999	447,612,785	6,796,116,987
25	SC Residential DERP Avoided Cost (¢/kWh)	Line 23 / Line 24 * 100		0.0000	0.0000	0.0004	0.0009	0.0012	0.0008	
26	SC Residential Rate Billed (¢/kWh)	Company Records		0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	
27	SC DERP Avoided Cost (Over) / Under Recovery	(Line 25 - Line 26) * Line 24 / 100	\$	(3,757) \$	(3,927) \$	(1,327) \$	1,614 \$	2,567 \$	990 \$	36,441
28	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 27 + PM Cum Bal	\$	9,752 \$	5,825 \$	4,498 \$	6,111 \$	8,678 \$	9,668 \$	9,668

McGee Exhibit 12
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Residential

51.25%

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

Residential

2017 Firm Coincident Peak CP % 38.68% 2018 Firm Coincident Peak CP %

Line No	Description Reference		Estimated June 2019		Estimated July 2019	Estimated August 2019	Estimated September 2019	Estimated 4 months ended Sept 2018
29	Purchased Power Agreements		\$ 396	\$	393 \$	364 \$	340 \$	1,492
30	Shared Solar Program		21,423		21,423	21,423	21,423 \$	85,693
31	Total DERP Avoided Costs	Line 29 + Line 30	\$ 21,819	\$	21,816 \$	21,787 \$	21,763 \$	87,185
32	Total Projected System Sales kwhs (w/solar)	Exhibit 2	7,097,791,674		8,128,668,264	8,680,327,632	8,129,028,172	32,035,815,742
33	DERP Avoided System Cost (¢/kWh)	Line 31 / Line 32* 100	0.0003		0.0003	0.0003	0.0003	0.0003
34	Projected SC Retail Sales kWh	Exhibit 4, Page 1b of 3	1,742,100,557		1,968,812,531	2,125,817,048	2,029,237,150	7,865,967,286
35	SC DERP Avoided Costs	Line 33 * Line 34 / 100	\$ 5,355	\$	5,284 \$	5,336 \$	5,433 \$	21,408
36	Residential DERP Avoided Costs Allocated by Firm CP	Line 35 * Line 1	\$ 2,745	\$	2,708 \$	2,735 \$	2,784 \$	10,971
37	SC Projected Residential kWh Sales	Exhibit 4, Page 1b of 3	486,895,816		619,213,465	687,169,454	628,981,205	2,422,259,939
38	SC Residential DERP Avoided Cost (¢/kWh)	Line 36 / Line 37 * 100	0.0006		0.0004	0.0004	0.0004	0.0005
39	SC Residential Rate Billed (¢/kWh)	Company Records	0.0006		0.0006	0.0006	0.0006	0.0006
40	SC DERP Avoided Cost (Over) / Under Recovery	(Line 38 - Line 39) * Line 31/100	\$ (177)	\$	(1,007) \$	(1,388) \$	(990) \$	(3,562)
41	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 40 + PM Cum Bal	\$ 9,491	\$	8,484 \$	7,096 \$	6,106 \$	6,106
42	SC Projected Residential Sales (October 2019-September 2020)	Exhibit 3						6,728,320,673
43	SC Residential DERP AC Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100						0.0001

McGee Exhibit 12
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DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

General Service / Lighting

2017 Firm Coincident Peak CP % 28.28%

General Service / Lighting

23.90%

n Coincident Peak CP % 28.28% 2018 Firm Coincident Peak CP %

Line No	. Description	Reference	June 2018	July 2018	August 2018	September 2018		October 2018	November 2018
2	Purchased Power Agreements		\$ 284	\$ 309 \$	518	286	\$	389 \$	176
3	Shared Solar Program		\$ -	\$ - \$	- :	-	\$	- \$	
4	Total DERP Avoided Costs	Line 2 + Line 3	\$ 284	\$ 309 \$	518	286	\$	389 \$	176
5	Total System kWh Sales	Exhibit 2	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228		6,334,828,962	6,670,820,955
6	DERP Avoided System Cost - (¢/kWh)	Line 4 / Line 5* 100	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000
7	SC Retail Sales kWh	Exhibit 2	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120		1,479,486,530	1,634,436,344
8	SC DERP Avoided Costs	Line 6 * Line 7 / 100	\$ 70	\$ 73 \$	125	5 74	\$	91 \$	43
9	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 8 * Line 1	\$ 20	\$ 21 \$	36	21	\$	26 \$	12
10	SC General Service/Lighting kWh Sales		532,609,815	555,007,748	534,768,585	608,217,191		471,984,556	426,666,805
11	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 9 / Line 10 * 100	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000
12	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records	(0.0005)	(0.0005)	(0.0005)	(0.0005))	(0.0001)	0.0005
13	SC DERP Avoided Cost (Over) / Under Recovery	(Line 11 - Line 12) * Line 10 / 100	\$ 2,683	\$ 2,796 \$	2,710	3,062	\$	486 \$	(2,100)
14	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$ (6,356)						
15	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 13 + PM Cum Bal	\$ (3,673)	\$ (878) \$	1,832	4,894	\$	5,381 \$	3,280

Line No	. Description	Reference	December 2018		January 2019		February 2019	March 2019		April 2019	May 2019	Twelve Months Ended May 2018	
16	Purchased Power Agreements		Ś	149 \$	\$	133 \$	5	18,720 \$	36,552	\$	23,863 \$	3,960	85,341
	Shared Solar Program		\$	- \$	\$	- \$	5	- \$	-	\$	15,982 \$	24,918	40,901
	Total DERP Avoided Costs	Line 16 + Line 17	\$	149 \$	>	133 \$	5	18,720 \$	36,552	\$	39,846 \$	28,879	
19	Total System kWh Sales	Exhibit 2		7,490,426,895		7,560,242,873		7,420,082,024	6,511,025,145		6,356,600,998	6,715,599,810	89,292,248,136
20	DERP Avoided System Cost - (¢/kWh)	Line 18 / Line 19* 100		0.0000		0.0000		0.0003	0.0006		0.0006	0.0004	
21	SC Retail Sales kWh	Exhibit 2		1,797,159,761		1,793,547,356		1,805,776,337	1,563,564,949		1,573,895,668	1,667,964,212	21,727,690,522
22	SC DERP Avoided Costs	Line 20 * Line 21 / 100	\$	36 \$	\$	32 \$	5	4,556 \$	8,777	\$	9,865 \$	7,172	30,912
23	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 22 * Line 1	\$	10 \$	\$	8 \$	5	1,089 \$	2,098	\$	2,358 \$	1,714	7,412
24	SC General Service/Lighting kWh Sales			445,252,198		455,887,041		446,297,147	406,630,406		413,949,578	461,349,327	5,758,620,397
25	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 23 / Line 24 * 100		0.0000		0.0000		0.0002	0.0005		0.0006	0.0004	
26	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records		0.0005		0.0005		0.0005	0.0005		0.0005	0.0005	
27	SC DERP Avoided Cost (Over) / Under Recovery	(Line 25 - Line 26) * Line 24 / 100	\$	(2,216) \$	\$	(2,271) \$	5	(1,142) \$	65	\$	288 \$	(593)	3,767
28	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 27 + PM Cum Bal	\$	1,064 \$	\$	(1,207) \$	5	(2,349) \$	(2,284)	\$	(1,996) \$	(2,589)	(2,589)

McGee Exhibit 12 Page 2b of 3 **DOCKET NO 2019-3-E**

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE

CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

General Service / Lighting 1 2017 Firm Coincident Peak CP % 28.28%

General Service / Lighting

2018 Firm Coincident Peak CP % 23.90%

Line No	. Description	Reference		Estimated June 2019	Estimated July 2019	Estimated August 2019	Estimated September 2019	Estimated 4 months ended Sept 2018
29	Purchased Power Agreements		Ś	396 \$	393 \$	364 \$	340 \$	1,492
30	Shared Solar Program		\$	21,423 \$	21,423 \$	21,423 \$	21,423	85,693
31	Total DERP Avoided Costs	Line 29 + Line 30	\$	21,819 \$	21,816 \$	21,787 \$	21,763 \$	
32	Total Projected System Sales kwhs (w/solar)	Exhibit 4, Page 2b of 3		7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172	32,035,815,742
33	DERP Avoided System Cost (¢/kWh)	Line 31 / Line 32* 100		0.0003	0.0003	0.0003	0.0003	0.0003
34	Projected SC Retail Sales kWh	Exhibit 4, Page 2b of 3		1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150	7,865,967,286
35	SC DERP Avoided Costs	Line 33 * Line 34 / 100	\$	5,355 \$	5,284 \$	5,336 \$	5,433 \$	21,408
36	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 35 * Line 1	\$	1,280 \$	1,263 \$	1,275 \$	1,298 \$	5,117
37	SC General Service/Lighting kWh Sales			503,131,126	558,701,811	586,229,211	562,074,280	2,210,136,428
38	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 36 / Line 37 * 100		0.0003	0.0002	0.0002	0.0002	0.0002
39	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records		0.0005	0.0005	0.0005	0.0005	0.0005
40	SC DERP Avoided Cost (Over) / Under Recovery	(Line 38 - Line 39) * Line 31/100	\$	(1,236) \$	(1,531) \$	(1,656) \$	(1,512) \$	(5,934)
41	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 40 + PM Cum Bal	\$	(3,824) \$	(5,355) \$	(7,011) \$	(8,523) \$	(8,523)
42	SC Projected General Service / Lighting Sales (October 2019 - September 2020)	Exhibit 3						5,986,473,078
43	SC General Service/Lighting DERP AC Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100						(0.0001)

McGee Exhibit 12 Page 3a of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

1 2017 Firm Coincident Peak CP % 33.03%

2018 Firm Coincident Peak CP

2018 Firm Coincident Peak CP % 24.85%

Line No	. Description	Reference	June 2018	July 2018		August 2018	September 2018	October 2018	November 2018
2	Purchased Power Agreements		\$ 284 \$	3	09 \$	518 \$	286 \$	389 \$	176
3	Shared Solar Program		-	-	\$	- \$	- \$	- \$	-
4	Total DERP Avoided Costs	Line 2 + Line 3	\$ 284 \$	3	09 \$	518 \$	286 \$	389 \$	176
5	Total System kWh Sales	Exhibit 2	7,999,801,237	8,477,178,0	71	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955
6	DERP Avoided System Cost - (¢/kWh)	Line 4 / Line 5* 100	0.0000	0.00	00	0.0000	0.0000	0.0000	0.0000
7	SC Retail Sales kWh	Exhibit 2	1,960,743,382	1,991,741,0	85	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344
8	SC DERP Avoided Costs	Line 6 * Line 7 / 100	\$ 70 \$		73 \$	125 \$	74 \$	91 \$	43
9	Industrial DERP Avoided Costs Allocated by Firm CP	Line 8 * Line 1	\$ 23 \$		24 \$	42 \$	24 \$	30 \$	14
10	SC Industrial kWh Sales		818,919,911	751,671,8	22	836,295,956	1,144,811,435	515,774,529	772,310,917
11	SC Industrial DERP Avoided Cost (¢/kWh)	Line 9 / Line 10 * 100	0.0000	0.00	00	0.0000	0.0000	0.0000	0.0000
12	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0001	0.00	01	0.0001	0.0001	0.0002	0.0004
13	SC DERP Avoided Cost (Over) / Under Recovery	(Line 11 - Line 12) * Line 10 / 100	\$ (796) \$	(7	28) \$	(794) \$	(1,121) \$	(1,109) \$	(3,064)
14	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$ 8,828						
15	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 13 + PM Cum Bal	\$ 8,032 \$	7,3	05 \$	6,510 \$	5,390 \$	4,281 \$	1,216

Line No	. Description	Reference			January 2019	February 2019	March 2019	April 2019	•	Twelve Months Inded May 2018
16	Purchased Power Agreements		\$	149 \$	133 \$	18,720 \$	36,552 \$	23,863 \$	3,960 \$	85,341
17	Shared Solar Program		\$	- \$	- \$	- \$	- \$	15,982 \$	24,918	40,901
18	Total DERP Avoided Costs	Line 16 + Line 17	\$	149 \$	133 \$	18,720 \$	36,552 \$	39,846 \$	28,879 \$	126,242
19	Total System kWh Sales	Exhibit 2		7,490,426,895	7,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	89,292,248,136
20	DERP Avoided System Cost - (¢/kWh)	Line 18 / Line 19* 100		0.0000	0.0000	0.0003	0.0006	0.0006	0.0004	, - , -,
21	SC Retail Sales kWh	Exhibit 2		1,797,159,761	1,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	21,727,690,522
22	SC DERP Avoided Costs	Line 20 * Line 21 / 100	\$	36 \$	32 \$	4,556 \$	8,777 \$	9,866 \$	7,172 \$	30,913
23	Industrial DERP Avoided Costs Allocated by Firm CP	Line 22 * Line 1	\$	12 \$	8 \$	1,132 \$	2,181 \$	2,452 \$	1,782 \$	7,724
24	SC Industrial kWh Sales			723,406,024	680,482,372	749,157,486	676,050,495	745,070,091	759,002,100	9,172,953,138
25	SC Industrial DERP Avoided Cost (¢/kWh)	Line 23 / Line 24 * 100		0.0000	0.0000	0.0002	0.0003	0.0003	0.0002	
26	SC Industrial Rate Billed (¢/kWh)	Company Records		0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	
27	SC DERP Avoided Cost (Over) / Under Recovery	(Line 25 - Line 26) * Line 24 / 100	\$	(2,882) \$	(2,714) \$	(1,865) \$	(523) \$	(528) \$	(1,254) \$	(17,378)
28	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 27 + PM Cum Bal	\$	(1,666) \$	(4,380) \$	(6,244) \$	(6,767) \$	(7,295) \$	(8,549) \$	(8,549)

McGee Exhibit 12 Page 3b of 3 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2018 - SEPTEMBER 2019

Line No.

1 2017 Firm Coincident Peak CP % 33.03%

2018 Firm Coincident Peak CP %

Industrial 24.85%

Line No.	. Description	Reference		Estimated June 2019		Estimated July 2019		Estimated August 2019		Estimated September 2019	€	Estimated 4 months ended Sept 2018
29	Purchased Power Agreements		\$	396	\$	393	\$	364	\$	340	\$	1,492
30	Shared Solar Program		•	21,423	•	21,423	•	21,423	•	21,423	•	85,693
31	Total DERP Avoided Costs	Line 29 + Line 30	\$	21,819	\$	21,816	\$	21,787	\$	21,763	\$	87,185
32	Total System kWh Sales	Exhibit 4, Page 3b of 3		7,097,791,674		8,128,668,264		8,680,327,632		8,129,028,172		32,035,815,742
33	DERP Avoided System Cost - (¢/kWh)	Line 31 / Line 32* 100		0.0003		0.0003		0.0003		0.0003		0.0003
34	SC Retail Sales kWh	Exhibit 4, Page 3b of 3		1,742,100,557		1,968,812,531		2,125,817,048		2,029,237,150		7,865,967,286
35	SC DERP Avoided Costs	Line 33 * Line 34 / 100	\$	5,355	\$	5,284	\$	5,336	\$	5,433	\$	21,408
36	Industrial DERP Avoided Costs Allocated by Firm CP	Line 35 * Line 1	\$	1,331	\$	1,313	\$	1,326	\$	1,350	\$	5,320
37	SC Industrial kWh Sales			752,073,616		790,897,255		852,418,383		838,181,666		3,233,570,919
38	SC Industrial DERP Avoided Cost (¢/kWh)	Line 36 / Line 37 * 100		0.0002		0.0002		0.0002		0.0002		0.0002
39	SC Industrial Rate Billed (¢/kWh)	Company Records		0.0004		0.0004		0.0004		0.0004		0.0004
40	SC DERP Avoided Cost (Over) / Under Recovery	(Line 38 - Line 39) * Line 31/100	\$	(1,678)	\$	(1,851)	\$	(2,084)	\$	(2,003)	\$	(7,615)
41	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 40 + PM Cum Bal	\$	(10,227)	\$	(12,077)	\$	(14,161)	\$	(16,164)	\$	(16,164)
42	SC Projected Industrial Sales (October 2019 - September 2020)	Exhibit 3										9,171,268,692
43	SC Industrial DERP AC Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100										(0.0002)

McGee Exhibit 13 DOCKET NO 2019-3-E

DUKE ENERGY CAROLINAS, LLC SOUTH CAROLINA RETAIL FUEL CASE CALCULATION OF PROJECTED BILLING PERIOD DERP AVOIDED COST BILLING FACTORS FOR THE 12 MONTHS OCTOBER 2019 TO SEPTEMBER 2020

2018 Firm

Line No.	Class	Coincident Peak (CP) KWs		CP %												
1	Residential	2,055,870		51.25%	_											
2	General Service / Lighting	958,783		23.90%												
3	Industrial	996,792		24.85%												
	Total SC	4,011,445		100%												
				October		November	D	ecember		nuary		February		March		
Line No.	Description	Reference		2019		2019		2019		2020		2020		2020		
4	Purchased Power Agreements		\$	311	ć	266	ċ	66,881	ċ	90,812	ć	98,399	ċ	139,451		
5	Shared Solar Program		Ş	21,352	Ş	21,352	Ş	21,352	Ş	21,352	Ą	21,352	Ş	21,352		
6	Total DERP Avoided Costs	Line 4 + Line 5	\$	21,663	\$	21,618	\$	88,233	\$	112,164	\$	119,751	ς	160,803		
Ü	Total DEM Avoided costs	Line 4 · Line 3	Y	21,003	Y	21,010	7	00,233	Y	112,104	7	113,731	Y	100,003		
7	Total Projected System Sales kwhs (w/solar)	Exhibit 3	6	,803,214,198	6	5,495,662,262	7.1	186,884,482	7.90	3,467,722	-	7,808,874,524	7	7,353,013,933		
8	DERP Avoided System Cost - (¢/kWh)	Line 6 / Line 7 * 100	-	0.0003		0.0003	- ,-	0.0012	. ,	0.0014		0.0015		0.0022		
9	Projected SC Retail Sales kWh	Exhibit 3	1	,706,250,685	1	,621,069,330	1.7	752,297,794	1.90	3,104,027	1	1,905,467,334	1	,823,372,113		
10	SC DERP Avoided Costs	Line 8 * Line 9 /100	\$	5,433		5,395		21,513		27,008		29,221		39,875		
Line No.	Description	Reference		April 2020		May 2020		June 2020		July 2020		August 2020		September 2020		12 Month Total
44	D. who and D. and A. and and a			00.400		00.507	<u> </u>	00.500	<u>,</u>	440 567		440 530	,	454.050		4 005 507
11	Purchased Power Agreements		\$	98,488	\$	98,507	\$	98,509	\$	119,567	\$	119,538	\$	154,858	\$	1,085,587
12 12	Shared Solar Program Total DERP Avoided Costs	Line 11 + Line 12	\$	21,352 119,840	<u> </u>	21,352	ć	21,352 119,861	ć	21,352 140,918	ć	21,352 140,889	<u> </u>	21,352	ċ	256,222
13	Total DERP Avoided Costs	Lille 11 + Lille 12	ş	119,640	Þ	119,859	Ş	119,661	ş	140,916	Þ	140,009	Ą	176,209	Ş	1,341,809
14	Total Projected System Sales kwhs (w/solar)	Exhibit 3	6	,672,124,994	6	5,463,555,894	7,0	048,447,873	8,24	1,762,239	8	8,635,074,609	8	3,178,560,496	88	8,790,643,227
15	DERP Avoided System Cost - (¢/kWh)	Line 13 / Line 14 *100		0.0018		0.0019		0.0017		0.0017		0.0016		0.0022		
16	Projected SC Retail Sales kWh	Exhibit 3	1,	,687,895,589	1	,621,681,377	1,7	726,646,416	1,99	0,627,190	2	2,110,577,812	2	2,037,072,774	2:	1,886,062,443
17	SC DERP Avoided Costs	Line 15 * Line 16 /100	\$	30,317	\$	30,072	\$	29,362	\$	34,036	\$	34,436	\$	43,889	\$	330,558
	SC DERP Avoided Cost Allocated on Firm CP kWs															
18	Residential	Total Line 17 * Line 1													\$	169,411
19	General Service / Lighting	Total Line 17 * Line 2													\$	79,007
20	Industrial	Total Line 17 * Line 3													\$	82,139
21	Total SC	Sum Lines 18 through 20												•	\$	330,558
	Projected SC Retail Sales kWh (October 2019 - September 2020)															
22	Residential	Exhibit 3													(6,728,320,673
23	General Service / Lighting	Exhibit 3													į	5,986,473,078
24	Industrial	Exhibit 3												_	9	9,171,268,692
25	Total SC	Sum Lines 22 through 24												•	2:	1,886,062,443
	SC DERP Avoided Cost ¢/kWh															
26	Residential	Line 18 / Line 22 * 100														0.0025
27	General Service / Lighting	Line 19 / Line 23 * 100														0.0013
28	Industrial	Line 20 / Line 24 * 100														0.0009